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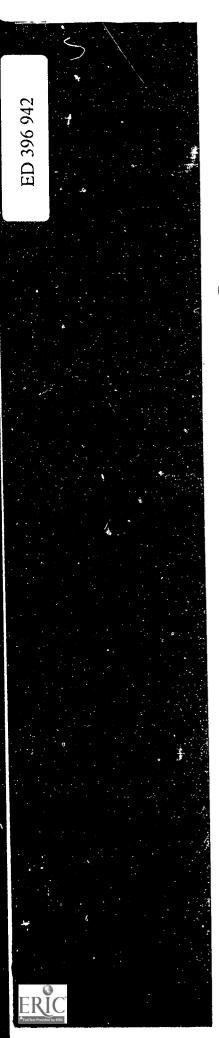
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ABSTRACT

The data presented in this report show trends in doctorate awards by science engineering field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED) conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. (JRH)





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Selected Data on Science and Engineering Doctorate Awards 1994

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Division of Science Resources Studies Directorate for Social, Behavioral and Economic Sciences



National Science Foundation

NSF 95-337

Selected Data on Science and Engineering Doctorate Awards 1994

Selected Data Tables

Susan T. Hill, Project Officer

Division of Science Resources Studies Directorate for Social, Behavioral and Economic Sciences



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Contributors

Tabulations were performed by Barbara DePaul and Teresa Grimes of the Quantum Research Corporation under contract to the National Science Foundation. The Project Officer for this report was Susan T. Hill.



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GENERAL NOTES

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED).

The SED is conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Information from this survey becomes part of the Doctorate Records File, which is a census of recipients of research doctorates awarded since 1920 by regionally accredited universities and colleges. Doctoral degrees such as the Ph.D. or D. Sc. are included in these surveys, but first-professional degrees such as the J.D. or M.D. are not.

Data for the SED are collected directly from the individual doctorate recipients. The questionnaire is distributed to them through the cooperation of the graduate deans to persons as they are completing their doctorate. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year.

These tables present detailed data on (S&E) doctorate recipients, with some totals provided for broad non-S&E fields. Detailed data on non-S&E fields are published by the National Research Council and by other Federal sponsors of the Survey of Earned Doctorates. The groupings of field specialties into broad fields may differ among the sponsoring agencies according to their missions.

Approximately 95 percent of the annual cohort of doctorate recipients in 1994 responded to the questionnaire. Over the decade, though, the response rate ranged from 95 percent in 1985 to 91 percent in 1989 and 95 percent in 1994. Note that most of the numbers presented are actual self-reports, as there are no adjustments for nonresponse. For the nonrespondents, partial data from public sources are added to the file for nonrespondents; therefore complete counts are presented for conferred doctorates by field of study and sex of recipient. Although some tables present data subject to nonresponse, the estimates represent the conservative known estimate for any data item. Therefore, small changes in numbers should be interpreted with caution, as numerical trends are affected by fluctuations in response rates. Thus, declines and increases may appear greater than they actually are.

Additional detailed tabulations will be available soon For further information on the availability of data for S&E doctorate recipients, please contact—

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Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1985-94

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									Pa	ige 1 of 5
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
S&E, total	18,936	19,437	19,894	20,933	21,731	22,867	24,019	24,673	25,444	26,211
Engineering, total	3,166	3,376	3,712	4.187	4,543	4,894	5.215	5.438	5,698	5.826
Aeronautical/astronautical engineering	124	118	142	150	178	192	207	234	228	230
Chemical engineering Chemical Petrofeum Polymer/plastics 1	504 440 24 40	531 476 18 37	584 527 23 34	685 624 33 28	712 625 29 58	658 561 49 48	691 621 28 42	725 607 54 64	737 624 52 61	725 630 42 53
Civil engineering Civil Environmental health	391 358 33	429 387 42	477 441 36	531 488 43	538 498 40	553 505 48	575 509 66	594 540 54	624 563 61	684 602 82
Electrical engineering Communications Computer Electrical/electronics	716 30 55 1	806 23 77 706	779 26 62 691	1,010 24 100 886	1,137 25 117 995	1,276 35 131 1,110	1,405 21 178 1,206	1,483 30 175 1,278	1.542 22 167 1.353	1.675 33 202 1.440
Industrial/manufacturing engineering ²	92	101	120	127	162	151	165	196	236	228
Materials/metallurgical engineering Ceramic sciences ³ Materials science Metallurgical	303 19 188 96	305 25 187 93	392 42 238 112	374 30 252 92	380 35 257 88	440 43 307 90	489 58 361 70	485 42 365 78	535 42 416 77	539 39 433 67
Mechanical engineering Mechanical Engineering mechanics	513 424 89	536 442 94	657 544 113	715 610 105	760 650 110	884 773 111	875 762 113	987 855 132	1,031 903 128	1.015 883 132
Other engineering	523 60 69 12 31	550 52 67 13 30	561 74 75 13 26	595 70 114 9 32	676 102 115 16 27	740 101 129 16 37	808 84 149 23 42	734 84 147 25 51	765 86 171 21 55	730 89 175 17 46
Mining/mineral Naval architecture:marine 4 Nuclear Ocean Operations research	16 8 96 25 54	22 9 98 14 54	27 7 84 24 51	17 9 104 21 44	33 9 86 20 68	39 8 114 17 46	38 5 107 21 76	26 N/A 120 21 56	24 N,A 108 24 56	23 N A 85 29 47
Systems Engineering, general Engineering, other	57 26 69	33 55 103	47 54 79	44 49 82	30 61 109	51 75 107	48 78 137	37 64 103	57 47 116	51 39 129
Sciences. total	15,770	16,061	16,182	16.746	17.188	17,973	18,804	19.235	19.746	20.385
Physical sciences, total	2.934	3.120	3.238	3,350	3,261	3,524	3,625	3.780	3.700	3.975
Astronomy Astronomy Astrophysics	100 43 57	109 52 57	100 46 54	130 66 64	113 49 64	128 52 76	125 50 75	134 55 79	145 76 69	143 65 78
Chemistry Analytical Inorganic Medicinal/pharmaceutical 5 Nuclear	1 836 285 251 60 7	260 58	1,975 314 240 65 13	2,015 301 250 73 7	289 256 64	293 242 48	2,193 304 260 82 14	2,213 304 268 68 7	286	2.254 333 262 102 10
Organic	494 304 84 48 213	72 41 289	297	50 310	78 46 312	55 524	538 364 111 45 400 75	512 398 83 59 449 65	336 107 53 432	543 333 117 52 447 55

See explanatory information, if any, and SOURCE at end of table



Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1985-94

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					_					Je 2 01 3
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Physics	980 10	1,078 15	1,137 17	1,172 16	1,161 15	1,265 21	1,286 13	1.403	1,399	1.549
Chemical & atomic molecular 6 Electron 4 Elementary particle	58 4 154	70 2 147	79 6 159	77 2 174	74 4 135	87 2 163	76 1 182	85 N/A 153	95 N/A 170	140 N/A 176
Fluids Nuclear Optics Plasma & high-temperature ⁷ Polymer	16 86 51 55 11	6 89 58 61	21 74 50 72 15	17 88 65 65 20	14 81 78 61 7	17 73 76 42 11	14 66 85 58 17	17 86 94 65 17	19 82 96 62 29	12 90 104 79 29
Solid state & low-temperature 8 Physics, general Physics, other	248 176 111	280 222 117	287 238 119	252 271 125	296 269 127	306 323 144	372 247 155	408 297 163	336 340 143	388 343 168
Other physical sciences	18	30	26	33	17	31	21	30	18	29
Earth, atmospheric, and ocean sciences, total	599	559	602	695	723	738	815	794	771	824
Atmospheric sciences	80 21	78 16	87 17	103 25	87 16		108 21	120 23	99 23	129 27
Atmospheric physics chemistry Meteorology	16 23	21 27	24 17	19 35	15 27		20 31	36 28	13 34	27 32
Atmospheric science/ meteorology, general Atmospheric science:	10	7	16	14	14	23	26	27	22	37
meteorology, other	10	7	13	. 10	}		10		7	6
Geosciences Applied geology ⁴ ,	8	118	5 114	425 7 144 46	165	6 6 6 166	192	N/A 166	479 N.'A 197 50	509 N/A 194 59
Geomorphology-glacial geology	13	11	18	9	10	14	18	12	16	13
Geophysics seismology Hydrology water resources Mineralogy petrology Paleontology Stratigraphy sedimentation	17 28 23	16	18 24 21	24 19 24	36	1 13 5 26 7 21	16 36 24	29 29 25	101 25 9 21 28	106 30 21 17 27
Geological & related sciences.	11	12	18		19	9¦ 31	30	18	15	18
Geological & related sciences.	11	13	2 29	31	21	8 28	33	31	17	24
Oceanography	92 24 68	1 2:	2 38	28	: 21	6 39	27	7 32	27	125 34 91
Other environmental sciences	42	2 3	5 29	58	6	8 50	3	57	68	61
Mathematical computer sciences total	998	1.12	1,190	1.26	1,47	1 1.59	1.83	1.927	2.026	2,022
Mathematics, total Algebra Analysis functional analysis Applied mathematics Computing theory	5: 8: 11:	5 4 3 8 6 13	6 57 1 86 5 13	7 5 6 7 1 14	4 5 6 10 2 15	3 3	7: 13 5 19	2 69 2 105 3 213	105 188	74 105 204
Geometry Logic Mathematical statistics ⁹ Number theory Operations research	3 3 15 1 2	0 2 0 14 8 2	3 18	3 15 5 2	0 1 2 16 6 2	7 4 2 1 57 15 23 2 22 2	9 2 7 20 6 3	3 28	19 228 3 42	29 204 2 36
Topology Mathematics general Mathematics other	. 8	5 12	4 4 5 13 7 4	7 13	4 17	57 5 77 19 51 5	1 18	7 58 0 209 5 5	276	5 284
	. 31					 2 70 9 61				

See explanatory information of any, and SOURCE at end of table



Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1985-94

See explanatory information if any, and SOURCE at end of table



Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1985-94

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									Pag	ge 4 of 5
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Psychology, total	3,118	3,126	3,173	3,074	3,208	3.281	3.250	3,263	3,421	3,389
Clinical	1,181	1,173	1,214	1,095	1,259	1,337	1,305	1,309	1,374	1.289
Cognitive psychology & psycholinguistics ²¹	76 11 431 175	70 14 449 184	80 9 486 200	83 7 482 176	79 8 501 148	76 8 466 159	94 7 497 155	101 2 507 170	104 5 488 202	129 8 496 181
Educational	127 165 102	106 147 110	89 146 107	103 135 118	105 146 104	98 143 126	110 142 142	91 154 138	91 143 158	69 140 137
psychobiology ²³ Quantitative	79 16	73 23	69 13	85 12	62 11	46 15	45 7	55 10	85 16	93 17
Personality Psychometrics School Social Psychology, general Psychology, other		16 11 116 141 309 184	25 9 93 133 343 157	18 11 115 140 368 126	28 6 107 128 364 152	20 8 82 145 371 181	13 9 82 147 324 171	17 5 88 139 295 182	22 9 95 126 306 197	19 5 84 153 284 285
Social sciences, total	3,217	3,324	3,164	3,236	3,324	3,332	3,556	3.610	3.769	3.900
Economics	959 148 27 784	1,019 160 25 834	960 139 25 796	1,008 156 27 825	1,062 164 26 872	145 26	1,053 168 24 861	1,051 141 25 885	1,067 137 24 906	1,102 162 26 914
Political science	666	659	647	634	700	734	740	804	824	930
International relations & affairs ²⁴ Political science/government Public administration Public policy analysis ²⁵	78 406 112 70	76 414 88 81	82 404 78 83	77 392 92 73	97	462 88	88 434 197 111	76 513 108 107	102 507 117 98	114 589 134 93
Sociology	486	506	449	468	458	448	493	512	535	547
Demography/population studies ²⁶ Sociology	25 461	15 491		19 449			28 465	17 495	22 513	23 524
Other social sciences American studies Anthropology Archaeology Area studies	87 353 24	1,140 68 381 28 28	75 352 31	70 325 23	76 325 26	72 324 22	33	1.243 81 320 33 33	1,343 101 342 38 36	1,321 88 384 34 34
Criminology										41 146
Historyphilosophy of science & technology ²⁷ Linguistics Statistics	1/6	189	199	166	188	167	227	266	214	
Urban affairs & studies ²⁸ Social sciences, general Social sciences, other	. 17	'\ 36	30) 28	3 20	3 23	: 3€	33	32	21

See explanatory information, if any, and SOURCE at end of table

Table 1. Science and engineering (S&E) doctorates awarded, by field of study and year of doctorate: 1985-94

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Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Non-S&E, total ²⁹ Health Humanities ³⁰ Education Professional/other Grand total, all fields	12,362 729 3,119 6,733 1,781	12,462 770 3,152 6.646 1,894 31,899	12,473 800 3,170 6,450 2,053 32,367	882 3,275 6,359	12,593 974 3,243 6,278 2.098 34,324	13,200 956 3,535 6,511 2,198 36,067	13,499 1,042 3,719 6,442 2,296 37,518	14,177 1,112 4,035 6,640 2,390 38,850		6,683 2,446

- In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."
- In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."
- 3 In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."
- 4 This subfield was deleted in 1991.
- 5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."
- 6 In 1993 this subfield was changed from "Atomic/molecular physics." to "Chemical and atomic/molecular physics."
- In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."
- 8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."
- 9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."
- 10 "Biotechnology research" was introduced in 1993.
- 11 In 1990 this subfield was changed from "Embryology" to "Developmental biology and embryology."
- 12 In 1993 this subfield was changed from "Immunology" to "Biological immunology."
- 13 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."
- 14 This subfield was introduced in 1988.
- 15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."
- 16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife and range management."
- 17 In 1988 "Food sciences" was separated into "Food distribution," "Food engineering," and "Food sciences, other."
- In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Foresty and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science." and "Conservation" was added to "Renewable natural resources."
- 19 "Plant protection-pest management" was introduced in 1988 and deleted in 1991.
- 20 I i 1988 "Soil sciences" was separated into "Soil chemistry and microbiology" and "Soil sciences, other."
- 21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."
- 22 In 199? :his subfield was changed from "Developmental psychology" to "Developmental and child psychology."
- 23 In 1993 his subfield was changed from "Physiological psychology" to "Physiological psychology and psychobiology."
- ²⁴ In 1993 his subfield was changed from "International relations" to "International relations and affairs."
- 25 In 1995 this subfield was changed from "Public policy studies" to "Public policy analysis."
- 26 In 1990 this subfield was changed from "Demography" to "Demography and population studies."
- 27 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology"
- 28 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies"
- 29 Non-S&E doctorates include those whose field of specialization is unknown.
- Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

KEY: N/A = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

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Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1985-94

Page 1 of 5

Fold of atual.	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Percent	women
Field of study	1983	1300	1307	1300	1505						1985	1994
S&E, total	4.891	5.167	5.312	5,662	6,109	6.369	6.931	7,080	7.653	7,923	25.8	30.2
Engineering, total	198	225	242	286	375	415	467	506	522	635	6.3	10.9
Aeronautical astronautical engineering	5	1	10	9	8	4	7	8	8	11	4.0	4.8
Chemical engineering Chemical Petroleum Polymer/plastics '	41 35 0 6	61 53 1 7	60 56 0 4	65 2 3	80 74 1 5	78 71 0 7	83 75 1 7	113 101 3 9	94 83 5 6	113 101 3 9	8 1 8.0 .0 15.0	15.6 16.0 7.1 17.0
Civil engineering Civil	20 18 2	21 19 2	18 17 1	30 25 5	54 45 9	49 39 10	41 31 10	50 36 14	54 45 9	80 56 24	5.1 5.0 6.1	11.7 9.3 29.3
Electrical engineering Communications Computer Electrical electronics	35 2 5 28	38 0 5 33	32 0 2 30	48 3 7 38	67 1 12 54	84 2 11 71	79 2 9 68	115 1 13 101	125 2 15 108	147 5 25 117	4.9 6 7 9 1 4 4	8.8 15.2 12.4 8.1
Industrial manufacturing engineering 2	6	14	13	19	18	25	17	25	27	33	6.5	14.5
Materials metallurgical engineering Ceramic sciences ³ Materials science Metallurgical		24 3 18 3		33 3 25 5	45 4 35 6	49 11 31 7	77 10 59 8	61 9 50 2	78 6 67 5	83 9 69 5	10.6 0 12.2 9.4	15.4 23.1 15.9 7.5
Mechanical engineering		18 14 4	14	29 26 3	29 22 7		57 50 7	45 33 12	57 46 11	69 60 9	5.2	6.8 6.8 6.8
Other engineering	3 11 1	48 1 9 0	3 15 1	53 3 18 0 3	74 6 26 0 3	7 23 1	8 27 2		79 6 31 3 3	99 10 45 3	5 0 15.9 8.3	13.6 11.2 25.7 17.6 6.5
Mining mineral Naval architecture/marine4 Nuclear Ocean Operations research	3 0	2 0 6 0	0 2	0 4	1	9 2	6	N/A 9 0	N/A 5	8 2	.0 3.1 2 .0	6.9
Systems Engineering, general Engineering, other		5	5] 8	2		10	7	' 3	3	4	i] 0	10.3
Sciences, total	4.693	4.942	5,070	5.376	5.734	5.954	6.464	6,574	7,131	7.288	29.8	1
Physical sciences, total	467	510	528	5€7	619	661	679	770	780	827	1	1
Astronomy Astronomy Astrophysics	. 11 5		9 13 4 7 5 6	1 13	3	7 20 3 13 3 7	3	197	12	2 9	9 11.€	13.8
Chemistry Analytical Inorganic Medicinal pharmaceutical Nuclear	362 62 47 15	6 1	6 72 2 59 7 16	60	6 7	3 68 4 60	8: 7: 0 2	95	5 9° 9 59 7 38	1 10 8 8 3 2	1 21 8 7 18.7	30 3 33.2 25.5 3 .0
Organic Physical Polymer Theoretical Chemistry general Chemistry other	79 70 14 49	7 1 1	1 59 2 13 6 1	7 3 1: 7 : 3 7:	8 2 1 3 9	7 76 5 13 9 14 1 128	6 8 3 2 4 8 7	6 109 4 13 7 19 6 10	81 2 2: 6 1: 7 1:1	8 9 2 2 6 1 2 12	3 23.0 3 16.1 7 14.0 6 21.	27 9 7 19 7 6 32 7 1 28.2

See explanatory information, if any, and SOURCE at end of table



Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1985-94

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											Pa	ge 2 of 5
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Percent	women
Fleid Of Study	1303	1300	1307	1300	1303	1330	1001	1002	1000	1001	1985	1994
Physics Acoustics Chemical & atomic	91 3	100	107 0	114	101 0	100 2	142	167 0	169 1	175 2	9.3 30.0	11.3 10.0
molecular 6 Electron 4 Elementary particle	6 1 8	6 0 11	4 0 15	8 0 16	8 0 10	7 0 14	4 0 20	6 N A 12	14 N A 18	17 N A 16	10.3 25 0 5 2	9.1
Fluids Nuclear Optics Plasma & high-temperature? Polymer	1 7 9 3	2 8 9 3 3	0 4 5 5 3	0 6 6 4 0	1 8 7 4 1	1 5 5 2 3	0 7 13 2 3	1 12 9 4	2 8 14 4 5	1 9 14 8 4	63 8.1 17.6 5.5 27.3	8.3 10.0 13.5 10.1 13.8
Solid state & low-temperature 8	19 10 21	29 18 9	24 31 16	35 25 12	23 19 20	35 33 23	42 31 18	53 42 27	42 46 15	53 30 21	7 7 5.7 18.9	13.7 8.7 12.5
Other physical sciences	3	5	2	10	2	8	6	5	4	3	16.7	10.3
Earth, atmospheric, and ocean sciences, total	108	95	112	135	148	141	179	188	160	183	180	22.2
Atmospheric sciences Atmospheric dynamics		8 2	14 3	11 2	10 2		16 3	27 4	18 5	· 26	5.0 4.8	20.2 33.3
Atmospheric physics. chemistry Meteorology		3 2	4 0	0 7	2 0		2 7	5 10	2 3	5 8	6.3 8.7	18 5 25.0
Almospheric science meteorology, general Almospheric science	0	0		1	3		3	7	7	4		10.8
meteorology other Geocciences Applied geology 4		68 1 23	76 1	82 1 36	92 0 35 13	85 3 32	124 0 34 19	115 N/A 35 16	89 N/A 35	95 N A 32 10	19.5 .0 18 9	.0 18.7 16.5 16.9
Geochemistry Geomorphology glacial geology	11	2			3	-		ļ	3	2	ł	15.4
Geophysics seismology	13 1 10 5 5	1 4 7	5 8 5	5 3 3	11 2 5 4	1 4 2	15 7	7 6 2		6 2	5.9 35.7 21.7	22.6 10.0 28.6 11.8 14.8
Geological & related sciences.	5	1	3	2	2	. 5	9	4	2	1	45 5	5.6
Geological & related sciences. other	3	4	5	6	11	8	8	7	2	11	27 3	458
Oceanography Marine sciences Oceanography	23 2 21		3	9	26 6 20	7	2	11	8	11	8 3	32.4
Other environmental sciences	6	. e	6	16	20	11	13	17	18	24	14.3	39 3
Mathematical computer sciences, total	139	169	190	177	263	268	316	325	402	373	139	18.4
Mathematics, total Algebra Analysis functional analysis Applied mathematics Computing theory	10	18	10 6	10 15 17	10 20 28	15	16 21 27	13 18 44	28 23 43	16	10 9	31 1 15.2 19 1
Geometry Logic Mathematical statistics ⁹ Number theory Operations research	32	2	36	2 5	38	7 8 5 3 8 31 5 1	56	3 46 3 4	57	50	13 3	20.7 24.5 13.9
Topology Mathematics, general Mathematics, other	12	2 20) 22	2 20	1		2 3	37	7 56	5 5	3 14 1	197
Computer sciences, total Computer science Information science systems	30 20 10) 39		i 39	6	9 85	5 90	S 91	123	3 11	3 80	14 1

See explanatory information if any, and SOURCE at end of table



Table 2. Science and engineering (S&E) c actorates awarded to women, by field of study and year of doctorate: 1985-94

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											Ра	ge 3 of 5
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Percent	women
1,010 01 0100,			,,,,,						,,,,,	,,,,,	1985	1994
Biological agricultural sciences.	1.409	1,452	1.531	1,691	1.769	1,860	1,981	2,064	2,278	2,354	28.7	37.5
Biological sciences, total Bacteriology Biochemistry Biophysics Biotechnology research 10	1.238 4 184 7 N:A	1,280 2 194 13 N [,] A	1,360 6 199 22 N'A	1,505 2 203 21 N/A	1,542 2 268 21 N/A	1,614 4 237 23 N/A	1,772 5 289 26 N/A	1,831 5 284 33 N/A	2,050 6 318 21 4	2,105 11 321 33 2	32.6 23.5 31.7 10.1	40.5 61.1 39.9 26.8 14.3
Plant genetics Plant pathology Plant physiology Botany, other Anatomy	8 8 12 34 45	10 5 18 42 27	7 10 15 36 42	6 9 23 41 32	3 8 15 52 27	7 12 19 33 29	5 13 19 39 31	8 10 16 45 31	12 15 19 43 34	5 11 21 46 29	25.8 21.1 20.7 28.3 33.3	16.7 27.5 30.0 39.3 43.9
Biometrics/biostatistics	12 39	10 44	14 55	15 55	20 57	18 69	29 63	24 80	21 116	33 101	30.0 39.0	46.5 42.8
embryology ¹¹ Ecology Endocrinology	5 52 4	7 40 6	0 38 11	3 47 10	4 36 10	12 52 11	20 60 16	22 65 12	25 66 12	32 70 8	33.3 26.0 23.5	51.6 34.8 30.8
Entomology	34 54 113 95 58	22 51 118 115 39	25 53 103 116 48	26 91 120 130 60	23 61 124 153 63	26 72 116 152 76	35 76 150 182 88	35 83 157 194 92	28 73 183 237 110	28 74 177 267 129	19.7 43.5 39.1 34.3 37.2	22 8 46.0 41.8 44.7 45.4
Nutritional sciences	72 2 24 49 35	86 3 33 41 33	97 5 34 54 48	89 8 30 57 43	91 5 39 57 41	88 4 36 73 32	70 7 30 71 46	95 8 33 61 41	99 7 43 76 45	102 9 49 87 46	63.7 9.5 24.2 46.7 31.8	69.4 40.9 41.2 42.9 35.7
Human'anımal pharmacology Human'anımal physiology Zoology. other Biological sciences, general Biological sciences, other	76 70 46 62 34	81 77 44 73 46	86 76 44 81 35	92 89 43 97 63	99 105 35 77 46	91 98 37 140 47	90 107 39 113 53	92 82 45 115 63	121 100 32 114 70	104 106 32 117 55	32.3 28.6 31.3 32.6 38.6	40.6 36.9 27.4 40.5 34.2
Agricultural sciences, total	171 19 8 13 N A	172 15 4 13 N/A	171 17 3 13 N/A		227 20 3 15 1	246 21 3 13 2	209 11 2 10 4	233 23 6 8 2	228 19 4 7 2	249 17 3 10	16.7	23.1 11.9 17.6 17.2 9.1
Poultry science 14 Animal sciences, other Fisheries science &	13	N/A 16		13	2 25	3 11	20	İ	6 19	5 25	137	23.8 29.1
management 15 Wildlife/range management 16 Food science 17	5 1 33	}		8	10 0	6	8	7 N/A	17 N/A	11 13 N/A	2.6	22.9 25.0
Food engineering 17 Food sciences, other 17 Forestry science 18 Forest biology 18 Forest engineering 18	N A N A 15 N A N A	N A 17 N A	N A	36 2 3	N/A	N/A 8	46 N/A 3	N/A	2 57 N/A 7 0	2 69 N/A 6 0	14.3	12 5 45.1 30.0 0
Forest management 18 Wood science & pulp paper	NΑ	NA	NA	2					0	2	1	11.8
technology 15 Conservation renewable natural	N A	-		İ			1					23.1
resources 18 Forestry & related sciences, other 18	N A				}			ì	9		i	28.6 10.2
Horticulture science	11	12	16	16	19	27	19	16	15	14	14.5	21.5
Plant breeding genetics	14 24											16.0 36.4
Plant protection pest management ¹⁹ Plant sciences, other Soil sciences ²⁶	N A 3	5	i 3	3	4	4	4	6	9	9	14.3	.0 37.5
Soil chemistry microbiology Soil sciences, other (Capacitation of the capacitation of	N A	N A	NA	11	7	8	3 11	12	4	•	5	19 0 8 7
Agricultural sciences, other	5											



Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1985-94

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	$ \tau$		1		- I				ı			
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Percent	women
•											1985	1994
Psychology, total	1,541	1,599	1,698	1,681	1,800	1,913	1.996	1,928	2,089	2,108	49.4	62.2
Clinical Cognitive psychology &	591	603	667	612	710	785	848	810	873	846	50.0	65.6
psycholinguistics 21	23 2 215	33 6 237	41 6 254	34 4 261	33 1 284	35 3 281	46 5 306	47 2 289	48 3 284	56 7 309	30.3 18 2 49.9	43.4 87.5 62.3
Counseling Developmental & child ²²	112	117	139	131	116	112	119	131	155	134	64.0	74.0
Educational Experimental Industrial/organizational	78 65 29	58 64 52	50 54 49	65 61 54	60 70 49	69 49 53	64 64 76	69 73 64	67 68 73	39 72 69	61.4 39.4 28.4	56.5 51.4 50.4
Physiological/ psychobiology ²³ Quantitative	35 4	30 8	32 7	45 5	33 6	28 3	21 2	25 5	50 11	52 8	44.3 25.0	55.9 47.1
Personality Psychometrics School Social Psychology, general Psychology other	9 3 54 94 125 102	9 7 59 79 149 88	11 3 53 72 173 87	8 6 66 75 196 58	17 3 69 68 204	10 4 53 92 233 103	4 3 57 86 185		12 2 65 68 185 125	12 1 53 100 159	42.9 30.0 58.7 56.3 47.0 51.3	63.2 20.0 63.1 65.4 56.0 67.0
Social sciences, total	1.029	1,117	[1.125	1,135	1,111	1.313		1,422	1.443	32.0	37.0
Economics Agricultural economics Econometrics Economics	145 21 2 122	181 16 2 163	163 24 4 135	198 31 4 163	198 25 2 171	200 27 3 170	217 38 5 174	219 28 2 189	246 31 7 208	250 20 4 226	15.1 14.2 7.4 15.6	22.7 12.3 15.4 24.7
Political science	175	196	175	164	201	170	211	235	246	282	26.3	30.3
affairs ²⁴ Political science/government Public administration Public policy analysis ²⁵	16 107 28 24	15 117 30 34	15 111 19 30	14 96 29 25	29 107 37 28	15 108 22 25	117	24 142 30 39	28 129 41 48	24 173 47 38	26.4 25.0	21.1 29.4 35.1 40.9
Sociology	243	221	175	249	232	218	246	250	255	282	50.0	51.0
studies ²⁶	9 234	6 215		11 238	10 222	11 207	16 230		12 243	12 270		52.2 51.5
Other social sciences	466 42 181 9 5	519 38 197 14 6	39 181 17	43 170 8	504 48 148 14 5		56 210 20	47 155 17	675 57 213 18 11	17	48.3 51.3 37.5	
Criminology	10 29				10 25				15 40		26.3 24.2	
Historyphilosophy of science & technology ² Linguistics Statistics	91 14	96	106	83	106	90	112	133	16 118 14	134	51.7	60.
Urban affairs & studies ²⁸ Social sciences, general Social sciences, other	21 8 54	13	6	13	9	9	17	20		9	47.1	42

See explanatory information if any, and SOURCE at end of table



Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1985-94

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Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	Percent	women
			l								1985	1994
Non-S&E, total ²⁹ Health Humanities ³⁰ Education Professional/other	5.853 440 1,345 3.491 577	6,138 480 1,406 3,611 641	6,116 475 1,399 3,553 689	6,156 549 1,431 3,513 663	6.403 629 1.436 3.609 729	6.736 592 1,600 3.752 792	6,939 669 1,721 3,744 805	7.338 710 1,858 3.958 812	7.453 777 1.917 3.905 854	7,883 844 2,055 4,073 911	47.3 60.4 43.1 51.8 32.4	53.3 65.1 47 0 60.9 37.2
Grand total, all fields	10,744	11.305	11,428	11.818	12.512	13.105	13,870	14,418	15,106	15,806	34.3	38.5

- In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."
- In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."
- In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."
- 4 This subfield was deleted in 1991.
- 5 In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."
- 6 In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics"
- In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."
- 8 In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."
- 9 In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."
- "Biotechnology research" was introduced in 1993.
- In 1990 this subfield was changed from "Embryology" to "Developmental biology and embryology."
- ¹² In 1993 this subfield was changed from "Immunology" to "Biological immunology
- 13 In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science."
- 14 This subfield was introduced in 1988.
- 15 In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."
- 16 In 1988 this subfield was changed from "Wildlife management" to "Wildlife and range management."
- 17 In 1988 "Food sciences" was separated into "Food distribution." "Food engineering." and "Food sciences. other."
- In 1988 "Forestry science" was separated into "Forest biology" "Forest engineering." "Forest management." "Wood science." "Renewable natural resources." and "Foresty and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science." and "Conservation" was added to "Renewable natural resources."
- "Plant protection-pest management" was introduced in 1988 and deleted in 1991.
- 20 In 1988 "Soil sciences" was separated into "Soil chemistry and microbiology" and "Soil sciences, other "
- 21 In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics"
- In 1993 this subfield was changed from "Developmental psychology" to 'Developmental and child psychology '
- 23 In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology and psychobiology"
- 24 In 1993 this subfield was changed from "International relations" to "International relations and affairs."
- 25 In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."
- 26 In 1993 this subfield was changed from "Demography" to "Demography and population studies."
- 27 In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology "
- 28 In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies"
- Non-S&E doctorates include those whose field of specialization is unknown
- 30 Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science. American studies, and archaeology are included not in humanities but in social science

KEY: N A = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation SRS, Survey of Earned Doctorates

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

									Page	1 of 35
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
			U	.S. citize	ns and pe	rmanent r	esidents			
Science and engineering, total	14,065	14,016	14,055	14,499	14,591	15,363	15,908	15,940	16,569	18,171
Engineering, total Chemical Civil Electrical Mechanical Other engineering	1,594 292 170 353 251 528	1,726 298 192 410 267 559	1,913 350 203 393 308 659	146 408 233 503 327 675	2,229 444 247 539 325 674	2,346 392 241 599 368 746	2,474 399 213 686 359 817	2,520 378 215 719 426 782	2,696 377 227 794 434 864	3,050 380 292 899 535 944
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	12,471 2,187 84 1,432 662 9	12,290 2,166 91 1,413 643 19	12,142 2,242 73 1,472 682 15	12,353 2,258 104 1,451 681 22	12,362 2,131 82 1,383 654 12	13,017 2,341 96 1,497 725 23	13,434 2,299 86 1,460 739 14	13,420 2,356 106 1,440 790 20	13,873 2,330 111 1,400 806 13	15,121 2,785 111 1,613 1,044 17
Earth, atmospheric, and ocean sciences	465 418 213 3,256 726	427 402 249 3,241 626	435 396 275 3,141 632	520 386 326 3,323 610	547 428 396 3,299 651	535 422 403 3,379 687	618 518 451 3,521 620	541 507 489 3,567 3	503 590 509 3,750 506	612 647 543 4,083 616
PsychologySocial sciences	2.864 2,342	2,832 2,347	2,806 2,215	2,729 2,201	2,737 2,173	2,992 2,258	3,018 2,389	86ر 2,401	3,161 2,524	3,145 2,690
Non-S&E, total Health Humanities Education Professional/other	10,629 585 2,768 5,906 1,370	10,500 603 2,665 5,799 1,433	10,506 646 2,672 5,663 1,525	10.413 692 2,760 5,475 1,486	10,435 756 2,717 5,409 1,553		11,508 840 3,194 5,779 1,695	3,439 5,982	12,093 939 3,511 5,930 1,713	12,675 1,050 3,761 6,040 1,824
Grand total, all fields	24,694	24.516	24,561	24,912	25,026	26,603	27,416	27,952	28,662	30,846
		U.S. cit	izens and	j perman	ont reside	nts, Amer	ican India	an/Alaska	n Native	
Science and engineering, total	41	52	53	44	53	42	56	69	43	64
Engineering, total Chemical Civil Electrical Mechanical Other engineering		0 2		1 1		0 2	1 1	1 1	0 0	1
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	40	5 0 0 5	7 0 6		5 10		10	12		6 0 4 2
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	1	1 2 0 1 0 0 3 17 4 0) : 	2 1		iļ (0 1	2 1	2
Psychology Social sciences	1	e 9 9 12		6 7 1	7 1	1 1		3 1 9 1		5 12 7 19
Non-S&E, total Health Humanities Education Professional/other	5 4	2 6 7 6 0 20	5 1 6 4	3 0 1 3	5 4 6 2	3	1 6 1 7 5	0 1 6 5		6 6 0 20 1 36
Grand total, all fields		6 9	9 11	5 9	4 9	9	6 13	14	9 12	0 142
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See explanatory information, if any, and SOURCE at end of table

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

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Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
			U.S	. citizens	and perm	anent res	idents, As	sian	_	<u> </u>
Science and engineering, total	809	813	924	916	981	1,008	1,179	1,336	1,610	2,987
Engineering, total Chemical Civil Electrical Mechanical Other engineering	281 60 26 63 58 74	262 58 26 71 31 76	327 60 34 78 61 94	332 27 27 103 57 78	360 77 35 93 66 89	359 51 28 115 69 96	405 50 30 140 62 123	450 54 34 175 78 109	527 62 41 199 93 132	868 96 69 305 179 219
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	528 152 2 112 36 2	551 146 6 109 31	597 143 1 108 34 0	584 138 5 85 47 1	621 156 2 96 57	649 164 5 99 58 2	774 171 0 121 50 0	886 225 4 133 88 0	1,083 265 4 157 103	2,119 598 10 330 255 3
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	19 33 17 151 24	14 28 37 167 22	18 41 26 170 38	14 33 44 171 30	22 24 52 199 23	27 48 200 32	17 57 66 261 24	27 51 86 268 37	22 79 77 370 29	89 141 117 720 72
Psychology Social sciences	44 88	41 96	47 114	47 107	55 90	53 110	59 119	56 136	73 168	109 273
Non-S&E, total Health Humanities¹ Education Professional/other	260 34 56 98 72	245 30 42 95 78	243 35 52 95 61	319 30 64 130 95	280 22 77 102 79	297 39 62 104 92	349 44 79 130 96	415 52 99 141 123	400 45 107 141 107	553 94 149 172 138
Grand total, all fields	1,069	1,058	1,167	1,235	1,261	1,305	1,528	1,751	2,010	3,540
			U.S	. citizens	and perm	anent res	idents, bl	ack		_
Science and engineering, total	374	334	319	358	366	372	457	403	469	496
Engineering, total Chemical Civil Electrical Mechanical Other engineering	34 6 4 8 3 13	24 4 4 3 9	25 4 4 3 3	31 7 1 7 1 15	33 5 5 9 5 9	40 10 1 8 5 16	55 8 12 16 3 16	49 13 3 17 5	51 6 5 15 4 21	54 8 8 17 7 14
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	340 27 0 23 4 0	310 26 0 17 8 1	294 20 2 13 5	327 33 0 21 12 0	333 31 0 26 5 0	332 30 1 24 5	402 31 0 22 9 0	354 25 1 17 6	418 41 2 31 7 1	442 46 0 34 11
Earth, atmospheric, and ocean sciences Mathematics Computer sciences B.ological sciences Agricultural sciences	4 7 3 53 16	0 6 1 48 16	2 11 2 60 13	3 4 2 48 20	4 8 1 56 14	3 4 1 50 15	3 11 8 60 17	6 4 5 61 13	4 8 6 74 16	6 11 10 75 22
PsychologySocial sciences	105 125	109 104	93 93	103 114	97 122	115 114	129 143	103 137	119 150	124 148
Non-S&E, total Health Humanities Education Professional/other	669 23 71 505 70	615 21 67 463 64	588 31 73 415 69	608 32 76 416 84	596 29 71 432 64	675 32 72 495 76	701 40 92 471 98	702 38 89 498 77	808 59 98 554 97	774 46 106 517 105
Grand total, all fields	1,043	949	907	966	962	1,047	1,158	1,105	1,277	1,270

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

See explanatory information, if any, and SOURCE at end of table.



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

		_				_			Pag	e 4 of 35
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
		- ι	J.S. citize	ns and pe	manent	residents,	Mexican	American	n	
Science and engineering, total	87	81	79	94	95	104	126	120	122	145
Engineering, total Chemical Civil Electrical Mechanical Other engineering	6 1 1 3 0 1	5 1 1 2 0	8 1 1 1 1 4	11 0 0 2 1 8	14 4 1 3 0 6	13 2 2 4 3 2	14 4 2 3 3 2	10 1 2 3 2 2	12 1 0 2 0 9	15 1 2 4 2 6
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	81 8 0 5 3 0	76 12 0 10 2 0	71 9 0 4 5	83 12 1 10 1 0	81 11 0 10 1	91 11 0 11 0	112 15 0 12 3 0	110 9 0 6 3 0	110 12 0 8 4 0	130 24 1 19 4 0
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	3 5 2 11 1	0 3 0 9	2 0 1 10 3	4 0 0 14 3	2 2 0 12 6	3 3 2 2 8	4 3 0 26 5	7 4 3 24 5	2 4 1 24 4	4 4 2 30 6
Psychology	25 26	29 19	27 19	28 22	31 17	25 19	35 24	37 21	42 21	40 20
Non-S&E, total Health Humanities Education Professional/other	106 4 22 73 7	114 3 23 81 7	100 3 17 73 7	96 3 21 63 9	82 5 22 49 6	86 · 7 19 50	106 3 27 67 9	99 5 24 58 12	127 8 35 71 13	161 5 42 100 14
Grand total, all fields	193	195	179	190	177	190	232	219	249	306
			U.S. citi	zens and	permane	nt residen	ts, other l	Hispanic		
Science and engineering, total	153	190	192	207	194	249	267	273	308	271
Engineering, total Chemical Civil Electrical Mechanical Other engineering	11 0 4 1 3 3	19 1 5 4 4 5	22 9 0 3 4 6	39 5 7 10 5 12	26 4 6 10 0 6	35 4 6 7 2 16	37 5 2 12 4 14	48 12 4 11 8 13	44 7 11 10 4	41 4 11 14 5
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	142 14 0 5 9	171 20 2 10 7	170 21 0 14 7	168 28 1 19 8	168 28 1 17 10 0	214 37 1 26 10	230 33 1 20 12 0	225 43 3 22 18 0	264 50 2 29 19	230 40 1 21 18 0
Earth. atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	3 7 4 38 9	3 6 5 45 9	3 5 2 34 6	3 3 42 16	. 7 5 4 41 5	5 5 3 43 10	12 6 9 46 10	6 6 4 51 10	10 11 5 63 6	4 8 1 72 14
Psychology	32 35	44 39	53 46	39 35	41 37	58 53	67 47	61 44	65 54	50 41
Non-S&E, total Health Humanities¹ Education Professional/other	142 6 68 59 9	156 5 57 78 16	158 5 68 76 9	122 6 58 51 7	146 2 56 69 19	188 4 80 84 20	177 10 79 70 18	187 4 82 80 21	179 13 74 76 16	193 14 87 72 20
Grand total, all fields	295	346	350	329	340	437	444	460	487	464

See explanatory information, if any, and SOURCE at end of table

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Page 5 of 35 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 Field of study U.S. citizens and permanent residents, white 13,880 12,051 12,454 12.500 13.167 13,320 13,321 13,733 12.148 Science and engineering, total 12.166 2.016 1,837 1,879 2.023 1.188 1,654 Engineering, total 322 159 284 166 227 266 317 345 318 295 259 Chemical 168 199 196 130 152 158 183 191 547 450 478 487 552 405 Electrical 259 319 283 363 327 334 230 286 266 325 176 210 253 Mechanical 590 612 617 681 677 Other engineering 10 800 10.774 11,327 11,483 11,710 11,864 10.978 10.794 10 593 1,828 2,008 1,968 1,972 2.023 1,874 1,956 1,906 1,947 Physical sciences, total 83 95 100 96 69 86 Astronomy 1,239 1 178 1,208 1,267 1,257 1,188 1,284 1,218 1.145 Chemistry 641 656 618 633 736 580 571 606 577 555 20 18 10 Other physical sciences 16 14 Earth, atmospheric, and ocean 503 494 485 454 397 394 480 498 557 sciences 476 471 372 419 425 350 343 193 319 332 369 339 410 401 319 Computer sciences 177 229 265 2,913 2,888 2,758 2,966 2,975 3,041 3.068 3,145 3,106 Biological sciences Agricultural sciences 557 554 518 570 601 545 493 438 487 2,739 2.452 2.645 2,651 2,635 2.590 2,547 2 5 1 6 2 445 Psychology 1,947 1,847 1,893 1.986 2,069 2,134 1,867 1,834 Social sciences 1.959 9,708 10.287 10.686 10,268 9,131 9,077 9,065 9,003 9.068 9.855 Non-S&E, total 800 867 735 524 2,400 502 553 606 684 662 721 2,399 2,821 3,060 3,109 3,281 2,464 2,363 2.471 2,766 Humanities 1 4,991 4,917 4,815 4,666 4,633 4,900 4,881 5,021 4,937 5.028 Education ... 1,236 1,334 1,260 1.352 1.380 1,432 1 452 1.441 1.510 Professional/other 21,297 21,225 21,116 21,457 21,568 22,875 23,175 23,589 24.020 24,566 Grand total, all fields U.S. citizens and permanent residents, male 11.676 10.313 10.363 10.546 9,881 9,649 9,631 9,888 9.670 10,182 Science and engineering, total 2,192 2,602 1,739 1,954 2,070 1.458 1.564 1.950 Engineering total 302 237 256 298 355 330 339 296 313 261 Čhemical 177 Čivil 192 218 207 207 188 192 195 811 652 714 Electrical 385 254 638 331 378 470 503 552 ,...., ... ,..... 297 310 398 481 306 322 Mechanical Other engineering 233 597 563 637 671 651 728 771 8,198 9,074 8,423 8,085 7.938 7.716 8.112 8.155 7.892 Sciences, total 1.809 2,161 1,790 1.843 1.848 1,694 1,871 1,845 1,842 1,840 84 64 91 88 90 75 Astronomy 1.150 1.104 1,145 1,123 1,018 1.114 1,092 1.039 999 Chemistry 663 712 907 696 603 588 620 621 596 663 10 14 Other physical sciences 14 14 Earth, atmospheric, and ocean 461 384 468 427 394 417 374 351 346 408 390 426 498 319 327 329 406 329 316 336 357 406 ANN 449 189 206 221 280 2,167 372 2.343 2 125 1,997 2,071 2,023 2,068 2,132 2.129 2,178 483 423 Agricultural sciences 503 506 482 487 1,220 1,128 1,206 1,222 1.171 1,362 1,277 1.217 1,174 1,425 1,481 1,419 1,383 1,272 1,366 1,343 1,381 1.418 1.528 Social sciences 4,865 5.668 5.001 5,174 5,288 5,428 5,413 5.0.36 5.061 5,341 226 328 1.974 225 239 252 260 231 196 129 216 1.466 1,451 1.516 1,660 1,702 1,831 1,814 1.558 2,453 336 2,221 2,359 2 341 2 3 2 9 2.356 2.301 2,712 Education 1,065 Professional/other 875 88€ 926 933 945 916 993 1.042 983 15,356 14.535 15.601 15,791 15,959 17 344 15,222 14.705 14.692 14.889 Grand total, all fields

See explanatory information, if any, and SOURCE at end of table



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

	_			7					Pag	e 6 of 35
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
,	·	I.S. citizer	ns and pe	rmanent r	esidents,	m a le, An	nerican In	dian/Alas	kan Nativ	9
Science and engineering, total	21	33	32	29	33	25	37	42	25	40
Engineering, total Chemical Civil	1 0 0	5 0 0	7	4 2	5 1 0	4	4	8	2	4
Electrical Mechanical Other engineering	1 0 0	2 2 1	3 1 1	1 0 1 0	0004	0 0 2	1 1 1	0 3 1 3	0 0 0 1	0 1 0 2
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	20 3 0 2 1 0	28 3 0 3 0	25 5 0 4 1 0	25 5 0 5 0	28 10 2 5 3 0	21 3 0 3 0 0	33 8 0 7 1 0	34 10 0 4 6	23 3 1 1 1 0	36 5 0 4 1
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	1 0 0 4 4	1 0 0 11 0	0 0 2 7 2	1 2 1 4 4	4 0 1 4 1	0 1 0 3 4	2 0 1 6 4	1 1 2 8 0	4 1 0 5 1	1 2 0 11 1
Psychology Social sciences	5 3	4 9	4 5	3 5	3 5	6 4	5 7	6 6	6 3	5 11
Non-S&E, total Health Humanities¹ Education Professional/other	19 1 2 12 4	25 0 5 16 4	30 1 6 18 5	23 1 0 18 4	16 0 2 10 4	27 1 4 16 6	37 3 3 29 2	40 3 12 20 5	35 0 7 21 7	31 1 12 10 8
Grand total. all fields	40	58	62	52	49	52	74	82	60	71
	_		U.S. ci	tizens and	d permane	ent reside	nts, male	, Asian		
Science and engineering, total	620	619	693	694	740	757	805	924	1,079	2,167
Engineering, total Chemical Civil Electrical Mechanical Other engineering	260 54 25 59 57 65	247 52 26 67 31 71	305 54 32 75 61 83	314 61 26 97 57 73	326 66 32 85 65 78	326 40 25 109 66 86	356 41 26 135 59 95	389 38 32 154 74 91	466 55 39 174 90 108	749 71 65 274 155 184
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	360 111 2 79 28 2	372 105 4 74 27 0	388 107 1 77 29 0	380 96 4 57 34	414 120 0 73 46	431 122 3 70 47 2	449 123 0 85 38 0	535 146 2 78 66 0	613 168 2 85 80	1,418 420 9 201 208 2
Earth, atmospheric, and ocean sciences	18 27 17 94 19	13 23 34 100 18	15 30 20 93 31	10 22 38 98 23	18 21 42 110 17	14 20 41 113 26	11 39 51 132 16	19 33 74 136 25	14 43 58 198 20	72 115 101 451 52
Psychology Social sciences	23 51	18 61	16 76	20 73	28 58	22 73	15 62	19 83	22 90	32 175
Non-S&E, total Health Humanities ¹ Education Professional/other	146 20 33 37 56	145 18 16 45 66	131 18 22 46 45	176 18 31 59 68	160 13 42 43 62	152 17 28 39 68	164 21 37 45 61	207 22 48 46 91	201 22 41 55 83	299 48 83 66 102
Grand total, all fields	766	764	824	870	900	909	969	1,131	1,280	2,466

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

									Pag	e 7 of 35
Field of study	1985	1986	1987	1988	1989	1990	1991	1592	1993	1974
			U.S. cit	izens and	perman	ent reside	nts, male	, black		
Science and engineering, total	236	185	189	222	213	225	266	237	261	282
Engineering, total Chemical Civil Electrical Mechanical Other engineering	30 4 8 3	20 3 3 4 2	24 4 4 3 3	27 6 1 5 1	30 4 5 9 5	34 8 1 7 5	47 7 10 14 2 14	43 12 3 15 5	40 3 3 13 4 17	41 4 6 14 6 11
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	206 20 0 17 3 0	165 22 0 14 7	165 17 2 11 4 0	195 25 0 14 11	183 24 0 19 5	191 23 1 17 5 0	219 26 0 17 9 0	194 19 0 12 6	221 31 2 22 7 0	241 33 0 25 7 1
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	4 7 3 32 15	0 3 1 26 13	1 9 1 35 10	3 4 2 25 15	3 5 0 32 13	3 1 29	2 7 4 29 16	5 4 4 37 10	4 7 2 42 12	5 8 8 32 16
PsychologySocial sciences	42 83	42 58	34 58	46 75	36 70		44 91	28 87	44 79	46 93
Non-S&E, total Health Humanities ¹ Education Professional/other	260 11 37 179 33	244 6 32 174 32	246 12 34 162 38		239 9 35 162 33	14 37 169	282 17 44 179 42	14 46 173	317 18 56 200 43	267 11 51 160 45
Grand total, all fields	496	429	435	441	452	479	548	514	578	549
			U.S. citi	zens and	permane	nt residen	its, male,	Hispanic		
Science and engineering, total	182	227	216	248	227	290	306	308	320	318
Engineering, total Chemical Civil Electrical Mechanical Other engineering	22 2 7 4 3 6	2 7 8 6	29 8 1 6 5	12 12 12 6	13	7 7 3 12 4	7 3 15 7	12 6 14 9	10 14 5	60 7 11 21 7 14
Sciences. total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	23 0 12 11	32 1 19 11	187 39 0 29 10	47 2 35 10	41 26 13	46 2 2 3 33	54 1 37	52 3 26 23	59 2 33 24	69 2 43 24
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	36	9 7 39	38	49	50	7 6 1 4 0 56	5 11 5	5 9 1 7 6 59	14 6 57	10 7 69
Psychology Social sciences										
Non-S&E, total Health Humanities¹ Education Professional/other	. •	5 45 1 76	62	3 7 2 47 5 66	5 7:	4 2 1 52 3 85	6 6	7 4 4 65 5 82	5 72 2 93	7 78 80
Grand total, all fields	350	373	382	385	37	6 449	45	B 48	516	515

See explanatory information, if any, and SOURCE at end of table



Table 3. Science and en(`...\ering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

							•		Pag	e 8 of 35
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
		U	J S. citizer	ns and pe	rmanent	residents,	male, Pu	erto Rica	n	
Science and engineering, total	30	49	53	58	54	67	52	71	70	72
Engineering total Chemical Civil	5 1 2	9 0 1	3 1 0	11 0 5	6. 1	4 2 1	7 1 1	10 3 1	8 2 0	10 2 1
Electrical Mechanical Other engineering	0 0 2	4 0 4	2 0 0	2 1 3	1 2 1	0 0	0 2 3	2 0 4	1	3 1 3
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	25 4 0 4 0	40 8 0 4 4	50 17 0 17 0	47 16 0 13 3	48 16 1 12 3 0	63 14 1 10 3 0	45 11 0 9 2	61 14 1 9 4 0	62 12 0 9 3	62 19 0 13 6 0
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	0 0 0 6 1	1 2 2 9 3	0 4 1 11 3	0 1 0 10 2	0 1 0 14 5	4 2 2 14 4	0 3 12 0	3 1 1 16 3	1 1 0 16 7	0 1 4 14 2
Psychology Social sciences	4 10	8 7	8 6	12 6	5 7	11 12	6 13	16 7	13 12	13 9
Non-S&E total Health Humanities 1 Education Professional other	35 1 6 25 3	28 2 4 20 2	41 0 18 19 4	30 2 9 15 4	32 1 10 17 4	37 0 8 26 3	32 2 11 16 3	39 3 10 23 3	51 0 18 25 8	50 2 16 22 10
Grand total, all fields	65	77	94	88	86	104	84	110	121	122
		U.S	. citizens	and perm	anent res	idents, m	ale, Mexic	can Ameri	can	
Science and engineering, total	54	54	52	59	57	67	84	79	73	87
Engineering, total Chemical Civil Electrical Mechanical Other engineering	6 1 3 0 1	5 1 1 2 0	7 1 1 1 1 3	11 0 0 2 1 8	9 1 1 2 0 5	11 2 1 4 2 2	12 3 2 3 2 2	10 1 2 3 2 2	10 1 0 2 0 7	13 1 2 4 2 4
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	48 7 0 4 3 0	49 9 0 8 1	45 8 0 4 4	48 11 1 9 1 0	48 9 0 8 1	56 8 0 8	72 12 0 10 2 0	69 7 0 4 3	63 9 0 63 0	74 20 1 16 3 0
Farth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	33260	0 2 0 3 2	2 0 1 6 3	2 0 0 12 1	2 2 9 6	2 1 0 15 7	4 1 0 19 4	5 4 3 11 4	2 3 1 13 3	4 3 2 17 4
Psychology	10 17	20 13	11 14	9 13	10 10	11 12	20 12	19 16	16 16	17 7
Non S&E, total Health Humanities! Education Professional/other	63 2 13 44 4	53 2 15 32 4	55 1 13 36 5	54 2 12 33 7	46 3 12 26 5	51 1 11 31 8	48 0 14 28 6	46 0 14 26 6	58 3 19 29	72 2 23 36 11
Grand total, all fields	117	107	107	113	103		132	125	131	159

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

								- ,	Pag	e 9 of 35
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
		U.:	S. citizens	and perr	manent re	sidents, r	nale, othe	er Hispani	ic	
Science and engineering, total	98	124	111	131	116	156	170	158	177	159
Engineering, total Chemical Civil Electrical Mechanical Other engineering	11 0 4 1 3 3	18 1 5 3 4 5	19 6 0 3 4 6	35 5 7 8 4 11	24 3 6 10 0 5	30 3 5 7 2 13	31 3 0 12 3 13	36 8 3 9 7	36 4 10 8 4 10	37 4 8 14 4 7
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	87 12 0 4 8	106 15 1 7 6	92 14 0 8 6	96 20 1 13 6 0	92 16 1 6 9 0	126 24 1 15 8 0	139 31 1 18 12 0	122 31 2 13 16 0	141 38 2 18 18	122 30 1 14 15 0
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	2 4 2 24 7	2 5 5 27 6	2 5 2 21 5	1 3 2 27 16	4 4 1 27 4	3 3 2 27 6	10 4 8 25 8	2 4 3 32 7	8 10 5 28 5	2 6 1 38 7
Psychology Social sciences	14 22	19 27	13 30	17 10	15 21	30 31	26 27	20 23	16 31	13 25
Non-S&E, total Health Humanities Education Professional/other	70 3 40 22 5	65 1 26 24 14	70 2 31 31 6	53 3 26 18 6	71 0 29 30 12	71 1 33 28 9	72 5 39 21 7	88 1 41 33 13	87 5 35 39 8	75 3 39 22 11
Grand total, all fields	168	189	181	184	187	227	242	246	264	234
		•	U.S. ci	tizens and	d perman	ent reside	intr male	, white		
Science and engineering, total	8,523	8,330	8,221	8,427	8,213	8,647	8,582	8,620	. 722	8,718
Engineering, total Chemical Civil Electrical Mechanical Other engineering	1,082 190 120 243 159 370	1,218 196 139 299 198 386	1,314 223 149 271 219 452	1,491 272 171 341 237 470	1,502 293 157 378 224 450	1,614 270 167 411 267 499	1,602 277 143 444 236 502	1,639 225 147 447 306 514		1,711 211 153 493 308 546
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	1,621 69 1.013 534	7.112 1.563 76 952 524 11	6,907 1,622 60 996 553 13	6.936 1.609 81 981 535 12	872 509	7,033 1,623 70 969 570		84 900	1,523 79 846 590	7,007 1,616 77 872 656 11
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	280 156 1.962	324 282 153 1.911 447	310 258 184 1.763 445		281 252 1,784	293 259	1,871	332 309 1,847	352 327 1,835	
Psychology Social sciences	1.302 1.236		1,170 1,155	1,094 1.095						
Non-S&E, total Health Humanities 1 Education Professional/other	152 1.388 2,357	142 1.329 2,166	4.388 191 1,292 2,102 803		195 1,303 1,911	203 1,505 2,030	199 1,516 1,996	1,628 1,981	208 1,606 1,975	258 1,725 1,965
Grand total, all fields	13,177	12,718	12,609	12.794	12,429	13,160	13,145	13,259	13,328	13.541
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See explanatory information, if any, and SOURCE at end of table



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Page 10 of 35 Field of study U.S. citizens and permanent residents, female Science and engineering, total 4,184 4,367 4,424 4,611 4,921 5,181 5,595 6,023 6,495 5,577 31 11 82 23 78 55 Engineering. total Čhemical Civil 15 18 13 67 Mechanical Other engineering 4,048 4,646 4,905 5,249 21 463 Physical sciences, total Astronomy 328 365 401 Chemistry Other physical sciences R Earth, atmospheric, and ocean sciences 73 46 94 Mathematics 1,116 123 Computer sciences 1.078 1,389 137 Biological sciences 1,144 1,252 1,438 1,583 1,276 1,740 1,311 159 Agricultural sciences 1,780 1,439 1,470 1,529 1,563 1,772 1,890 1.939 1,974 Psychology 1,512 1,020 1,106 1,046 1.162 Social sciences Non-S&E, total 5,288 5,444 5,445 5,570 6,066 6,220 6,584 6,680 7,007 1,492 3,438 702 1,244 3,139 1,243 3,188 1,422 3,429 Health Humanities¹ 1,608 1,697 1,787 1,221 3,210 599 1,210 3,194 1,199 3,274 3,653 3,574 3,739 11,815 Grand total, all fields 12,161 12,703 13.502 9,811 9.869 10,023 10,491 11,247 9,472 U.S. citizens and permanent residents, female, American Indian/Alaskan Native Science and engineering, total Engineering, total ō Čhemical ŏ ŏ ŏ Civil ò Mechanical Other engineering Sciences, total Physical sciences, total 0 2 0 Ástronomy Ō Chemistry Other physical sciences Earth, atmospheric, and ocean sciences Mathematics Computer sciences
Biological sciences ŏ Agricultural sciences Ō 3 5 Psychology Social sciences 5 8 3 5 15 2 Non-S&E, total Health Humanities ¹ 30 3 2 21 18 1 Education Professional/other

See explanatory information, if any, and SOURCE at end of table.

Grand total. all fields

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

See explanatory information, if any, and SOURCE at end of table.



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Page 12 of 35 Field of study U.S. citizens and permanent residents, female, Hispanic Science and engineering, total Engineering total . Chemical . Civil . 3 2 0 Ó Õ Sciences, total Physical sciences, total 0 5 2 Astronomy Chemistry 24 17 9 2 Physics Ō Other physical sciences Earth, atmospheric, and ocean Computer sciences
Biological sciences
Agricultural sciences 27 38 35 25 39 32 37 Non-S&E. total 72 48 99 73 89 115 Humanities 1 ... Education 92 17 Professional other U.S. citizens and permanent residents, female, Puerto Rican Science and engineering, total ŏ ŏ ō Electrical Õ C 1 ŏ ŏ Physical sciences total

Astronomy
Chemistry Sciences, total Ö 4 0 1 0 Control of the contro Earth, atmospheric, and ocean 0 7 3 Computer sciences Ó n Biological sciences
Agricultural sciences ŏ 9 5 Psychology Social sciences Psychology 3 11 3 Non-S&E. total . 20 Health 14 Humanities 1 2 Education Professional other Grand total all fields . . .

See explanatory information, if any and SOURCE at end of table



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

See explanatory information, if any, and SOURCE at end of table.



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Page 14 of 35 1985 1986 1987 1991 Field of study 1988 1989 1990 1992 1993 1994 U.S. citizens and permanent residents, female, white 3,643 3,818 3,830 4,027 4.287 4,520 Science and engineering, total 4,738 4,701 5,011 5.162 Engineering. total 106 163 224 226 235 261 305 240 21 10 16 Čhemical 31 43 52 48 48 45 25 49 13 20 12 34 27 17 Civil 9 12 22 29 39 16 19 46 12 11 34 Electrical 54 40 Mechanical 17 16 19 30 32 26 19 Other engineering 42 60 69 68 94 91 110 103 104 131 3,682 3,537 4,294 4,503 4,461 399 4,750 4,857 Sciences total 3,686 3,864 4.063 Physical sciences, total 311 334 338 374 385 285 383 388 407 21 299 230 Ástronomy 271 53 316 46 318 Chemistry 256 276 313 315 306 46 47 42 48 66 61 66 80 8 Other physical sciences Earth, atmospheric, and ocean 142 132 86 73 100 110 109 109 123 70 93 116 61 61 59 79 84 124 88 Computer sciences 45 67 73 1,170 69 83 951 113 1,221 Biological sciences 977 995 1,114 1,120 1,154 1,310 1,349 Agricultural sciences 146 110 109 110 149 123 120 1,288 1,313 1,346 1,351 1,387 1,571 1,660 1,557 1,712 1,708 Psychology Social sciences 797 712 752 768 861 959 808 4,477 350 4,689 4.852 5.863 Non-S&E, total 4,677 4,636 5.195 5,292 5.629 5,681 592 382 362 427 489 459 522 609 Health 558 Humanities 1 1,076 1,071 1,103 1,096 1,261 1,305 1,432 503 1,556 2.634 2,751 2,713 2,644 2.722 2,870 2,885 3,040 2.962 3.063 Professional/other 417 485 531 462 545 605 580 599 624 635 8,507 8,507 8,663 9,139 9,715 10,030 10,330 10,692 11,025 Grand total, all fields 8,120 U.S. citizens 13,022 12,966 13,369 13,467 14,624 14,558 14,927 15,149 Science and engineering, total 13,134 14,166 Engineering. total 1,383 1,558 294 1,780 1,864 1,957 2.109 2,226 2,086 Chemical 358 382 348 324 240 168 629 203 130 139 162 187 188 180 173 164 270 193 320 241 440 259 597 352 633 356 Electrical Mechanical 327 398 491 554 209 256 299 346 297 Other engineering 678 11.855 11.639 11.408 11.603 12.209 12.449 12.701 12,938 Sciences, total 11 589 12.538 2,119 97 1,984 Physical sciences total 2,032 2,095 2,169 2.050 2,119 2,157 100 2.093 2.195 78 1,298 597 82 88 Ástronomy 106 1,345 616 7 1,272 704 11 1,320 1,398 1,350 671 1,289 789 Chemistry 1,381 1,378 1,328 709 20 627 15 626 18 Other physical sciences 18 19 14 15 Earth, atmospheric, and ocean 435 404 493 462 506 sciences Mathematics 410 518 516 506 592 376 366 345 393 375 463 454 496 496 342 189 338 348 422 425 426 Computer sciences 388 Biological sciences 3,148 3,124 2,981 3,131 3,117 3,190 3,327 3,447 3,415 Agricultural sciences 511 683 579 584 539 606 630 564 457 519 2,767 2,683 2,900 3,060 Social sciences 2,013 2,169 2,165 2,003 1,964 2,062 2,149 2,172 2,250 2,321 Non-S&E, total 10,236 10,661 10,017 9.921 9,933 10,739 10,936 11,416 809 11,481 11,956 780 2,975 879 550 606 657 729 2,531 5,245 1,428 3,211 3,484 Humanities 1 2,635 2,528 2,509 2,610 2,899 3,274 5,298 1,356 5,817 5,842 1,669 Education 5,774 5,626 5.491 5.635 5.605 5,755 EducationProfessional/other 1,275 1.339 1.484 1,411 1.576 1.579 23,370 23,083 22,983 23,290 23,400 24,905 25,560 25,974 26,408 27,105 Grand total, all fields

See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

See explanatory information, if any, and SOURCE at end of table.



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Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

									Page	16 of 35
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
					U.S. citize	ns, black				
Science and engineering, total	294	270	245	272	297	290	362	319	37	387
Engineering, total Chemical Civil Electrical Mechanical Other engineering	19 4 2 6 1 6	14 1 2 2 3 6	12 4 1 0 2 5	19 4 0 7 0 8	24 2 2 8 5 7	28 5 0 7 5 11	43 4 8 16 3 12	32 8 0 12 3 9	41 4 3 13 2 19	44 6 8 14 4
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	275 23 0 19 4 0	256 20 0 13 7 0	233 16 2 11 3 0	253 28 0 17 11	273 25 0 20 5 0	262 19 1 14 4 0	319 24 0 18 6 0	287 21 1 13 6 1	334 29 2 19 7	343 33 0 23 9
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	2 3 2 44 5	0 5 0 40 7	1 10 2 45 7	2 2 1 36 8	3 6 1 45 6	3 4 1 36 9	2 9 5 47 6	5 4 4 46 5	2 5 5 63 5	3 9 7 63 10
PsychologySocial sciences	101 95	102 82	88 64	99 77	96 91	111 79	125 101	99 103	117 108	112 106
Non-S&E, total Health Humanities¹ Education Professional/other	618 17 63 477 61	553 17 58 422 56	523 25 65 381 52	542 26 67 372 77	524 24 63 390 47	608 25 69 455 59	641 35 84 436 86	643 35 83 464 61	732 52 82 513 85	705 41 94 482 88
Grand total, all fields	912	823	768	814	821	898	1,003	962	1,107	1,092
				U	.S. citizer	ıs, Hispan	ic			
Science and engineering, total	250	279	308	331	313	390	410	433	444	462
Engineering, total Chemical Civil Electrical Mechanical Other engineering	6 1	25 4 3 7 3 8	24 7 1 4 4 8	43 3 10 10 5 15	33 5 4 10 3 11	39 7 6 9 3 14	48 10 5 11 8 14	57 10 6 14 10 17	56 10 7 16 3 20	49 5 7 16 7
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	26 0 14 12	254 36 1 24 10	284 48 0 40 8 0	288 58 2 44 12 0	280 52 1 40 11	351 63 2 50 11	362 54 1 39 14	376 58 4 34 20 0	388 65 1 43 21	413 75 2 49 24 0
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	5 49	4 9 4 52 7	3 9 4 52 12	7 3 2 61 13	6 8 4 58 12		12 6 11 79 7	10	8 9 5 93 14	7 12 5 110 16
Psychology Social sciences		82 60	92 64	89 55	87 53	100 79	113 80		120 74	128 60
Non-S&E, total Health Humanities¹ Education Professional/other	13 92	293 12 68 190 23	309 11 89 185 24		10 77 157		321 12 105 175 29	12 98 200	386 19 122 209 36	420 20 129 225 46
Grand total, all fields	561	572	617	595	581	721	731	 778 	830	882

See explanatory information, if any, and SOURCE at end of table.



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

See explanatory information, if any, and SOURCE at end of table.



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

	Page 18 of 35												
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994			
				U.S.	citizens,	other Hisp	anic			<u> </u>			
Science and engineering, total	115	129	147	152	138	179	194	203	229	197			
Engineering, total Chemical Civil Electrical Mechanical	7 0 3 0 3	9 1 1 2 1	14 5 0 2 3	22 3 4 7 3	16 3 2 7	21 3 3 3	25 4 2 8	34 6 3 8	36 7 6 9	25			
Other engineering	1	4	4	5	0 4	11,	8	7 10	12 12	. 5			
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	108 10 0 2 8 0	120 15 1 9 4	133 13 0 10 3 0	130 24 1 16 7	122 21 0 14 7 0	158 28 1 19 8 0	169 22 1 13 8 0	169 29 3 14 12 0	193 39 1 23 15	172 29 1 14 14			
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	2 4 3 29 7	3 3 2 31 1	1 3 2 25 3	3 2 2 31 10	5 3 4 29 2	4 2 2 29 3	8 3 8 33 6	4 5 4 42 2	6 6 4 44 2	3 7 1 53			
Psychology Social sciences	29 24	36 29	50 36	35 23	36 22	49 41	59 30	51 32	56 36	47 26			
Non-S&E, total Health Humanities¹ Education Professional/other	119 5 55 52 7	121 5 38 65 13	117 5 43 61 8	93 4 43 44 2	108 2 34 58 14	153 4 59 74 16	130 6 52 59 13	139 3 54 66 16	141 9 52 68 12	140 11 52 59			
Grand total, all fields	234	250	264	245	246	332	324	342	370	337			
	U.S. citizens, white												
Science and engineering, total	11,821	11,746	11,611	12,002	12,048	12,691	12,836	12,846	13,207	13,346			
Engineering, total Chemical Civil Electrical Mechanical Other engineering	1,097 199 115 231 160 392	1,229 216 124 293 181 415	1,331 252 140 256 203 480	1,530 309 162 324 225 510	1,: 83 328 163 360 218 514	1,690 299 162 413 261 555	1,707 300 143 430 244 590	1,749 267 142 457 299 584	1,890 282 147 506 302 653	1,882 246 181 502 313 640			
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	10,724 1,856 76 1,219 555 6	10.517 1,833 78 1,182 557 16	10,280 1,902 68 1,243 577 14	10,472 1,899 90 1,235 556 18	10,465 1,777 73 1,167 526 11	11,001 1,939 86 1,249 586 18	11,129 1,896 81 1,201 601 13	11,097 1,916 91 1,191 616 18	11,317 1,848 97 1,119 623 9	11,464 1,942 93 1.138 698			
Earth. atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	409 337 170 2,869 646	382 326 176 2.840 543	381 295 215 2,696 541	462 308 253 2,878 493	484 351 296 2,832 560	488 346 325 2,909 582	546 403 330 2,965 527	469 407 363 2,998 475	439 445 379 3.055 426	485 448 375 3,003 471			
Psychology Social sciences	2,552 1,885	2,509 1,908	2,476 1,774	2,404 1.775	2,422 1,743	2,596 1,816	2,615 1,847	2,579 1,890	2,751 1,974	2,702 2,038			
Non-S&E, total Health Humanities¹ Education Professional/other	8,942 494 2,377 4,932 1,139	8,883 508 2,324 4,846 1,205	8,851 536 2,269 4,753 1,293	8,781 596 2,375 4,594 1,216	8,844 675 2,288 4,575 1,306	9,477 648 2,649 4,842 1,338	9,579 692 2,685 4,812 1,390	10,029 714 2.926 4,977 1,412	10,023 782 2,969 4,870 1,402	10,441 846 3,148 4,973 1,474			
Grand total, all fields	20,763	20,629	20,462	20,783	20,892	22,168	22,415	22,875	23,230	23,787			

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

	Page 19 of 35													
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994				
	1		1		J.S. citize	ens, male								
Science and engineering, total	9,135	8,860	8,801	9,014	8,820	9,274	9,387	9.396	9,425	9,445				
Engineering, total Chemical Civil Electrical	1,160 211 121 250	1,241 205 129 306	1,409 250 153 306	1,602 312 174 370	1,615 322 151 411	1,709 288 151 446	1,807 297 152 510	1,826 250 144 542	1,930 265 138 572	1,868 236 155 569				
Mechanical Other engineering	178 400	196 405	231 469	240 506	240 491	276 548	263 585	329 561	313 642	324 584				
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	7,975 1,726 73 1,084 563 6	7,619 1,695 82 1,044 556 13	7,392 1,733 63 1,085 571	7.412 1,750 84 1,073 582 11	7,205 1,582 67 956 549	7,565 1,747 76 1,046 613 12	7,580 1,707 77 1,014 605 11	7,570 1,710 87 971 636 16	7,495 1,647 86 920 633 8	7,577 1,743 82 945 703 13				
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	348 306 165 2,116 563	331 297 165 2,049 463	328 280 193 1,904 468	384 283 245 1,960 420	404 300 266 1,927 450	293 268 1,958	444 370 305 2,021 436	368 357 353 1,998 377	351 372 343 1,999 333	381 375 349 1,926 387				
PsychologySocial sciences	1,396 1,355	1,330 1,289	1,259 1,227	1,190 1,180	1,146 1,130		1,106 1,191	1,176 1,231	1,201 1,249	1.145 1.271				
Non-S&E, total Health Humanities Education Professional/other	5,088 171 1,491 2,632 794	4,777 157 1,396 2,419 805	4,774 207 1,371 2,359 837		4,576 207 1,391 2,132 846	221 1,580 2,273	4,990 221 1,605 2,249 915	5,104 203 1,728 2,245 928	5,068 226 1,699 2,262 881	5,265 283 1,835 2,195 952				
Grand total, all fields	14,223	13,637	13,575	13,725	13,396	14,166	14,377	14,500	14,493	14,710				
			U.S. ci	tizens, m	ale, Amer	rican India	n/Alaskar	n Native						
Science and engineering, total	21	33	32	29	33	25	37	42	25	40				
Engineering, total Chemical Civil Electrical Mechanical Other engineering	0 0	0 0 2 2	1 1 3 1	1 0		0 2	0 1 1 1	1 0 3 1	2 1 0 0 0 1	0				
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	3002	3 0	5 4	5 5	10) 3	8 0 7	10 0 4 6	3 1 1 1	5 0 4 1				
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences				2 1		4 0 0 1 1 0 4 3) () 1) 1 1 2 6 8) C	0 11				
Psychology Social sciences		5 4				3 6								
Non-S&E, total	1	1 (2) 1) 5 1	1 6]]] 1	0 1	1	3 12 3 12 9 20	3 (1 12				
Professional/other				1	1		1	-		71				



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

	Page 21 of 35													
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994				
				U.S (nale, Hisp	anic	L \						
0	151	177	182	202	180	237	241	263	256	262				
Science and engineering, total Engineering, total	16	22	21	37	27	33	38	46	45	44				
Chemical	2	2	6	3 9	3	7 5	6 3	8 5	7 5	5 5				
Electrical	1	6 3	4	8	9	8 2	11	12 8	13 3	16 6 12				
Other engineering	405	8	6	13 165	9 153	11 204	12 203	13 217	17 211	218				
Sciences, total	135 20 0	155 28 0	161 33 0	45 2	37	41	44		49	58 2				
Ástronomy Chemistry Physics	10 10	18	27 6	33 10	25 11	30	31 12	23	29 19	36 20				
Other physical sciences	ŏ	1	Ŏ	0	0	0	0	0	0	0				
Earth, atmospheric, and ocean sciences	4		3	3	4		11		6 8	5 9				
Mathematics	5 3		7 4 33	2	4 1 43	3	10 10 44	6	47	5 81				
Biological sciencesAgricultural sciences	28 7	29 4	8		9		6		9	9				
Psychology Social sciences	25 43		31 42		27 28		47 38		42 46	42 29				
Non-S&E, total	149		150				129		166	175 3				
Humanities ¹ Education	49 83	34	51 82				63	74	55 87	67 75				
Professional/other	11	1	14	ļ		1	13	1	}	30 437				
Grand total, all fields	300	302	332	321	307	380	370	410	422	437				
				U.S. ¢	itizens, m	ale, Puert	o Rican							
Science and engineering, total	30	49	50	58	54	67	52	2 71						
Engreering total	5	ıl c	.] ·) '	i 2	:	7 10 1 3	1 2	2				
Civil Electrical			. :	2 2			1 (- 1	3				
Mechanical Other engineering						2 (2 0		3				
Sciences, total		5 40												
Physical sciences total	1 .	ol d		0 (j	1 '	1	9	9 9	13				
Physics	1									6 0				
Earth, atmospheric, and ocean				0				0	3					
sciences		ol :	2	4	1	1]	ž	ō	1	1 4				
Computer sciences	.]	6! !	9 1	1 1	Ŏ 1	4 1	4 1	2 1		14				
Agricultural sciences		4	В	8 1	2	5 1 7 1	* 1	- 1	6 1: 7 1:					
Social sciences Non-S&E, total		5 2	Í			2 3	7 3	32 3		50				
Health		6	2 4 1	8		0		1	0 1	0 2 B 16				
Education Professional/other	. 2	5 2	0 1	-	5 1		6 1 3		3 2 3	5 22 8 10				
Grand total, all fields		55 7	7 9	94 8	8 8	10	4 8	34 11	0 12	1 122				
	L													



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Page 23 of 35 1994 1985 1987 1988 1989 1990 1991 1992 1993 1986 Field of study U.S. citizens, male, white 8,290 8,367 8.342 8,264 8,025 7,899 8.087 7.881 8.290 8.235 Science and engineering, total 1.000 1,199 1,486 1,522 1.591 1.104 Engineering, total 254 135 262 128 201 187 268 280 211 233 Chemical 125 137 122 151 304 Civil 106 116 132 131 337 374 419 461 452 397 Electrical 216 146 274 244 210 280 271 288 193 201 242 169 Mechanical 353 469 482 487 555 513 358 418 Other engineering 6.751 6.749 6,768 6,725 6,700 6.510 6816 7,264 6.921 1,534 1,556 1,570 78 964 1,412 1,524 1,473 1,571 Physical sciences, total 1,573 68 1,539 75 1,580 70 942 547 81 884 62 78 74 59 896 828 843 982 857 543 10 555 560 628 517 510 512 526 483 12 10 13 Other physical sciences 11 Earth, atmospheric, and ocean 409 339 332 365 301 363 377 379 326 sciences 253 268 272 324 319 266 139 238 272 305 149 172 248 260 299 307 Computer sciences 1,943 1,798 1,745 1,776 1,825 1.802 1,782 314 1.698 Biological sciences 1,880 353 Agricultural sciences 534 435 437 387 415 441 406 349 1,080 1,078 1.024 PsychologySocial sciences 1.284 1.215 1.159 1,087 1,048 1,009 1,071 1,021 1.067 1.103 1,112 1,183 1,135 4,107 4,695 4.532 4,399 4,441 Non-S&E, total 4,546 4,283 4,269 4,256 177 1,333 186 171 198 250 1,660 191 198 148 1,350 133 Health 180 1,546 1,942 1,296 1,246 1,258 1,451 1,466 1,573 1,934 1,961 1,962 2,321 2,127 2,071 1,986 1,882 2,000 Education 827 796 851 750 Frofessional/other 727 727 760 12,676 12,822 12,849 13,037 12,308 12,168 12,343 11,988 12,689 12,810 Grand total, all fields U.S. citizens, female 5,502 5,704 4,892 5,237 5,162 3,999 4,162 4,165 4.355 4,647 Science and engineering, total 296 59 30 343 57 119 149 Engineering, total 68 20 51 21 60 37 Čhemical 29 48 10 21 13 13 28 Civil 29 45 57 20 Electrical 14 33 117 32 10 16 19 34 23 MechanicalOther engineering 15 142 117 62 72 75 104 97 129 4,879 5,206 5,361 4.177 4,398 4,644 4,020 337 4.016 3.880 402 422 412 447 446 20 452 20 362 369 324 Physical sciences, total Astronomy 336 352 342 48 352 357 261 276 296 305 Chemistry 47₁ 44 66 50 5 53 56 Other physical sciences Earth, atmospheric, and ocean 118 148 138 73 82 109 114 87 sciences 59 82 97 124 121 70 24 69 65 93 Mathematics 80 83 69 82 77 37 Computer sciences 1,448 1,489 1,232 1,329 1,032 1,075 1,077 1,171 1,190 1,289 Biological sciences 124 132 128 134 Agricultural sciences 120 116 116 119 156 1,870 1.915 1,478 1,537 1,724 1,724 1,409 1,437 1,488 Psychology 1.050 833 834 839 958 941 1.001 Social sciences 6,691 5,946 6,312 6,413 5,148 5,243 5,210 5,357 5.847 5,284 Non-S&E. total 500 606 653 678 461 522 559 399 Health 379 411 1.649 1,144 1,132 1,138 1,159 1,140 1,319 1,370 1,483 1.575 Humanities¹ 3,647 3.572 3.493 3,207 3,064 3,113 3,362 3,356 Education 651 692 661 Professional/other 481 534 574 526 582 666 12,395 9,565 10,004 10,739 11,183 11,474 11,915 9.446 9,408 Grand total, all fields



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

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See explanatory information, if any, and SOURCE at end of table.

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Page 27 of 35 Field of study U.S. citizens, female, other Hispanic Science and engineering, total Engineering, total Chemical 0 Civil Mechanical . . . Ò Other engineering 1 7 9 0 7 2 0 Sciences, total Physical sciences, total ŏ ò Ó Ó n Other physical sciences O Earth, atmospheric, and ocean sciences 2 12 Mathematics Computer sciences 8 1 Biological sciences Ò Agricultural sciences 10 18 15 13 Psychology Social sciences 2 15 3 32 Non-S&E, total 25 27 23 24 47 Humanities¹ Education Professional/other Grand total, all fields U.S. citizens, female, white Science and engineering, total 3,721 3,712 3,915 4,167 4,401 4,601 4,556 4,840 5,004 3,557 Engineering, total 27 Čhemical 45 31 Civil 15 17 19 27 Electrical 39 57 3,580 322 3,955 4,185 4,380 4,329 4,592 4.713 3,460 3,596 3,760 Sciences, total Physical sciences, total Astronomy Chemistry 3 Other physical sciences Earth, atmospheric, and ocean sciences 37 43 77 70 Computer sciences 1,080 1,087 1,133 1,196 1,305 1,140 Biological sciences Agricultural sciences 1,317 1,538 1,635 1,520 1,671 1,678 1,268 1,326 727 1,373 734 1,294 Psychology Social sciences 5,497 5,746 5,541 584 4,396 4,600 4,582 4,525 4,737 5,078 5,138 Non-S&E, total 1,219 2,850 1.023 1,030 1,042 1,353 1,423 1,488 Humanities¹ 1,028 2,719 1.198 1,027 2,682 2,608 2.693 2.842 2.928 3,016 3,039 2.611 Education ... Professional/other 8,440 8,904 9,479 9,739 10,053 10.381 10.750 Grand total, all fields 7.953 8,321 8 294



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

,	Page 28 of 35													
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994				
		1	ν 	lon-U.S. c	itizens w	ith permai	nent visas	 S						
Science and engineering, total	931	994	1,089	1,130	1,124	1,197	1,284	1,382	1,642	3,022				
Engineering, total	315 52	343 57	355 56	366 50	365 62	389 50	388 51	411 60	470 53	839 87				
Civil Electrical Mechanical Other engineering	40 83 58 82	53 83 58 92	41 73 67 118	46 105 71 94	59 99 66 79	61 108 69 101	40 132 62 103	51 122 74 104	59 165 88 105	89 266 179 218				
Sciences, total Physical sciences, total	616 137	651 134	734 147	764 139	759 147	808 172	896 180	971 199	1,172 237	2,183 590				
Astronomy Chemistry Physics Other physical sciences	2 87 46 2	3 93 37 1	1 91 55 0	7 73 55 4	4 85 57 1	4 99 65 4	110 68 0	6 112 81 0	5 128 102 2	9 324 255 2				
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	30 42 24 108 43	23 36 47 117 47	25 51 32 160 48	27 44 42 192 71	29 35 58 182 45	19 47 55 189	26 55 63 211 56	35 53 67 240 62	41 94 84 303 49	106 151 117 668 97				
Psychology Social sciences	59 173	65 182	59 212	61 188	54 209	73 196	65 240	86 229	90 274	85 369				
Non-S&E, total Health Humanities¹ Education Professional/other	393 35 133 130 95	439 35 137 173 94	489 40 163 172 114	492 35 150 177 130	502 27 186 164 125	501 35 183 153 130	572 60 219 174 119	596 46 228 165 157	612 60 237 175 140	719 89 277 198 155				
Grand total, all fields	1,324	1,433	1,578	1,622	1,626	1,698	1,856	1,978	2,254	3,741				
		Non-U.S	6. citizens	with perr	nanent vi	sas, Amei	rican India	an/Alaska	n Native					
Science and engineering, total	0	0	0	0	0	0	0	0	. 0	0				
Engineering, total Chemical Civil Electrical Mechanical Other engineering	0 0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0	0	0 0	0 0 0 0 0	0	0 0	0 0 0 0				
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	0 0	000	0	0 0	0	0 0	0	0 0 0	0 0	0				
Earth, atmospheric, and ocean sciences	0	0 0	0	0		0 0	0 0	0	0	0				
PsychologySocial sciences			1						1 :					
Non-S&E, total Health Humanities¹ Education Professional/other		0 0								0 0				
Grand total, all fields		0					2	2 0		0				



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

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Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994			
			Non-L	J.S. citize	ns with pe	rmanent	visas, His	spanic					
Science and engineering, total	46	66	49	66	69	78	82	80	98	85			
Engineering, total Chemical Civil Electrical Mechanical Other engineering	6 0 1 3 0 2	10 0 4 2 3	10 4 0 2 1 3	20 2 3 4 2 9	14 4 4 0 2	15 1 3 4 2 5	12 1 0 4 1 6	14 6 1 3 1 3	10 0 5 1 2 2	17 2 7 5 1 2			
Sciences. total Physical sciences. total Astronomy Chemistry Physics Other physical sciences	40 4 0 3 1	56 5 1 1 3 0	39 8 0 4 4	46 5 0 4 1	55 7 1 3 3 0	63 9 0 7 2	70 11 0 7 4	66 14 0 8 6	88 14 1 8 5	68 15 0 10 5			
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	2 5 1 10 2	0 3 3 14 10	2 2 0 10 3	0 1 0 15 8	3 3 0 13 6	2 3 1 16 9	4 3 1 16 8	3 2 1 12 9	5 7 2 21 6	1 1 2 20 9			
Psychology Social sciences	5 11	8 13	3 11	4 13	6 17	9 14	9 18	11 14	11 22	5 15			
Non-S&E, total Health Humanities ' Education Professional/other	27 1 15 9 2	41 0 23 14 4	42 0 25 16	32 2 16 7 7	43 1 23 13 6	38 0 23 11 4	54 4 31 14 5	50 1 30 14 5	41 5 23 9 4	59 5 38 14 2			
Grand total, all fields	73	107	91	98	112	116	136	130	139	144			
			Non	-U.S. citiz	ens with	permaner	nt visas, w	vhite					
Science and engineering, total	345	402	440	452	452	476	484	4.75	526	534			
Engineering, total Chemical Civil Electrical Mechanical Other engineering	91 12 15 28 16 20	125 11 28 26 29 31	127 14 18 27 27 41	124 8 21 39 28 28	143 17 28 45 23 30	150 19 34 37 25 35	130 22 16 48 22 22	130 17 24 30 26 33	133 13 21 46 25 28	134 13 18 45 21 37			
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	254 50 1 24 25 0	277 41 1 26 14 0	313 54 1 24 29 0	328 48 3 22 21 2	309 51 1 21 29 0	69	354 72 2 38 32 0	345 56 4 27 25 0	393 63 3 26 33	400 81 3 40 38 0			
Earth, atmospheric, and ocean sciences Mathematics Conputer sciences Biological sciences Agricultural sciences	13 7 44	15 17 17 48 14	13 24 14 62 13	24 12 88	14 18 23 72 10	26 14 66		16 18 15 70 18	31 31 90	18 23 26 103 16			
Psychology	38 74	38 87	40 93	41 72	30 91	49 77	36 100		56 95	37 96			
Non-S&E, total Health Humanities¹ Education Professional/other	1 87	194 16 76 71 31	214 17 94 62 41	222 10 96 72 44		14 117 58	69	21 134 44	67	245 21 133 55 36			
Grand total, all fields	534	596	654	674	676	707	760	714	790	779			



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

See explanatory information, if any, and SOURCE at end of table.



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

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Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994			
			<u> </u>	lon-U.S.	citizens w	ith tempo	rary visas	<u> </u>	!				
Science and engineering, total	4,048	4.160	4,468	4.936	5,391	6,571	7,642	8.092	8,110	7,510			
Engineering, total Chemical Civil Electrical Mechanical	1,419 199 207 311 239	1,372 199 199 320 231	1,532 216 233 310 303	1,721 236 266 419 333	1,940 236 262 498 358	2,277 250 284 602 465	2,634 281 353 690 493	2,743 339 357 725 538	2,782 336 380 702 553	2,656 336 385 737 459			
Other engineering Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	2,629 624 14 330 276	423 2,788 767 17 393 348 9	2,936 801 23 399 376	3,215 870 20 442 403	586 3,451 890 26 461 401	676 4,294 1,073 30 530 507 6	5,008 1,257 37 689 525 6	784 5,349 1,346 28 729 581	5,328 1,263 34 675 550 4	739 4,854 1,108 32 597 472 7			
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	238 89 424	97 272 123 391 320	122 302 143 492 289	132 305 176 557 345	122 346 178 608 355	171 424 271 853 440	185 506 340 1,059 435	236 511 365 1,159 472	235 517 348 1,246 447	196 437 344 1,056 453			
PsychologySocial sciences	81 703	81 737	85 702	84 746	106 846	117 945	133 1,093	156 1,104	148 1,124	151 1,109			
Non-S&E, total Health Humanities ¹ Education Professional/other		1,116 99 249 471 297	1,142 96 252 419 375	1,258 118 290 480 370	1,255 134 283 450 388	1,522 166 354 501 501	1,667 171 443 501 552	1,859 226 494 552 587	1,811 214 461 544 592	1,883 229 531 537 586			
Grand total, all fields	5,228	5,276	5,610	6,194	6,646	8,093	9,309	9,951	9,921	9,393			
		Non-U.S	S. citizens	with tem	porary vis	sas, Amer	ican India	ın/Alaskaı	Native				
Science and engineering, total	0	1	1	0	0	0	0	1	1	2			
Engineering, total Chemical Civil Electrical Mechanical Other engineering	0	0 0 0	1 0 0 1 0	0 0 0 0 0	000000	0 0 0 0	0 0 0 0 0	j 0	00000	1 0 0 0 0			
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	0 0 0	0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0	1 0 0 0 0	1 0 0 0 0			
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	000000000000000000000000000000000000000	0 0 0 1	0 0 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0 1	0 0 0 0	0 1 0 0			
PsychologySocial sciences	0		0	0	0	0 0	0	1 .	0	0			
Non-S&E, total Health Humanities ¹ Education Professional/other	0 0	0 0	0 0 0 0	0 0 0 0	0 0 0 0		0 0 0 0	0	0 0 0 0	1 0 1 0			
Grand total, all fields	0	1	1	0	0	1	0	2	1	3			



Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94



Table 3. Science and engineering (S&E) ductorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1985-94

NOTE: Details may not add to totals because of persons with unknown race/ethnicity.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates



Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1985-94

	Page 1 of 4												
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994			
		<u> </u>			То	tal				1			
Science and engineering, total	18,936	19,437	19,894	20,933	21,731	22,867	24,019	24,673	25,444	26,211			
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	3,166 124 504 391 716	3,376 118 531 429 806	3,712 142 584 477 779	4,187 150 685 531 1,010	4,543 178 712 538 1,137	4,894 192 658 553 1,276	5,215 207 691 575 1,405	5,438 234 725 594 1,483	5,698 228 737 624 1,542	5,826 230 725 684 1,675			
Industrial Materials/metallurgical Mechanical Other engineering	92 303 513 523	101 305 536 550	120 392 657 561	127 374 715 595	162 380 760 676	151 440 884 740	165 489 875 808	196 485 987 734	236 535 1,031 765	228 539 1,015 730			
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	15,770 2,934 100 1,836 980 18	16,061 3,120 109 1,903 1,078 30	16,182 3,238 100 1,975 1,137 26	16,746 3,350 130 2,015 1,172 33	17,188 3,261 113 1,970 1,161	17,973 3,524 128 2,100 1,265 31	18,804 3,625 125 2,193 1,286 21	19,235 3,780 134 2,213 1,403	19,746 3,700 145 2,138 1,399	20,385 3,975 143 2,254 1,549			
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences		559 729 399 3,807 997	602 740 450 3,839 976	695 749 515 4,112 1,015	723 859 612 4,115 1,086	738 892 705 4,327 1,174	815 1,039 800 4,646 1,073	794 1,058 869 4,798 1,063	771 1,146 880 5,091 968	824 1,118 904 5,197 1,078			
Psychology	3,118 3,217	3,126 3,324	3,173 3,164	3,074 3,236	3,208 3,324	3,281 3,332	3,250 3,556	3,263 3,610	3,421 3,769	3,389 3,900			
Non-S&E, total Health Humanities Education Professional/other	12,362 729 3,119 6,733 1,781	12,462 770 3,152 6,646 1,894	12,473 800 3,170 6,450 2,053	12,566 882 3,275 6,359 2,050	12,593 974 3,243 6,278 2,098	13,200 956 3,535 6,511 2,198	13,499 1,042 3,719 6,442 2,296	14,177 1,112 4,035 6,640 2,390	14,311 1,197 4,086 6,650 2,378	14,800 1,297 4,374 6,683 2,446			
Grand total. all fields	31,298	31,899	32,367	33,499	34,324	36,067	37,518	38,850	39,755	41,011			
					Citizensh	ip known							
Science and engineering, total	18,113	18,176	18,523	19,435	19,982	21,934	23,550	24,032	24,679	25,681			
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	3,013 121 491 377 664	3,098 105 497 391 730	3,445 131 566 436 703	3.867 129 644 499 922	4,169 166 680 509 1,037	4.623 176 642 525 1,201	5,108 205 680 566 1,376	5,263 215 717 572 1,444	5,478 219 713 607 1,496	5,706 226 716 677 1,636			
Industrial Materials/metallurgical Mechanical Other engineering	86 292 490 492	99 289 498 489	113 373 611 512	117 352 660 544	150 347 683 597	148 424 833 674	162 481 852 786	192 469 964 690	230 516 987 710	228 530 994 699			
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	15,100 2,811 98 1,762 938 13	15,078 2,933 108 1,806 991 28	15,078 3,043 96 1,871 1,058	15,568 3,128 124 1,893 1,084	15,813 3,021 108 1,844 1,055	17,311 3,414 126 2,027 1,232 29	18,442 3,556 123 2,149 1,264 20	18,769 3,702 134 2,169 1,371 28	19,201 3,593 145 2,075 1,356 17	19,975 3,893 143 2,210 1,516 24			
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	580 656 302 3,680 1,081	524 674 372 3,632 946	557 698 418 3,633 921	652 691 502 3,880 955	669 774 574 3,907 1,006	706 846 674 4,232 1,127	803 1,024 791 4,580 1,055	777 1,018 854 4,726 1,045	738 1,107 857 4,996 953	808 1,084 887 5,139 1,069			
Psychology Social sciences	2,945 3,045	2,913 3,084	2,891 2,917	2,813 2,947	2,843 3,019	3,109 3,203	3,151 3,482	3,142 3,505	3,309 3,648	3,296 3,799			
Non-S&E, total Health Humanities ¹ Education Professional/other	11,809 684 2,974 6,476 1,675	11,616 702 2,914 6,270 1,730	11,648 742 2,924 6,082 1,900	11,671 810 3,050 5,955 1,856	11,690 890 3,000 5,859 1,941	12,762 922 3,436 6,289 2,115	13,175 1,011 3,637 6,280 2,247	13,871 1,081 3,933 6,534 2,323	13,904 1,153 3,972 6,474 2,305	14,558 1,279 4,292 6,577 2,410			
Grand total, all fields	29,922	29,792	30,171	31,106	31,672	34,696	36,725	37,903	38,583	40,239			
'			1										

See explanatory information, if any, and SOURCE at end of table.



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Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1985-94

Page 2 of 4 1992 1994 1987 1988 1989 1990 1991 1993 1985 1986 Field of study U.S. citizens 13.369 13.467 14,166 14,624 14.558 14,927 15,149 13,022 12,966 13,134 Science and engineering, total 2.211 2,086 2.109 2,226 1,558 1,864 1.957 1,279 1.383 Engineering, total 103 95 114 82 Aeronautical/astronautical 53 382 348 324 293 342 318 294 162 358 187 240 241 Chemical 173 168 203 188 180 130 139 327 Civil 629 320 440 491 554 597 633 398 89 50 29 33 40 51 56 Industrial 190 218 172 173 144 193 176 241 Materials/metallurgical 119 259 297 346 356 256 209 Mechanical 309 220 257 302 297 317 350 327 328 Other engineering 12,938 11,408 11,589 11.603 12.209 12,538 11.855 11,639 Sciences, total 2,119 97 1,984 2,169 2,119 2,093 2,195 Physical sciences, total 2.050 2.032 2.095 102 106 82 88 92 R4 100 Ástronomy 1,328 709 1,272 1,289 1,350 1,320 1,381 1,378 1,298 597 1,398 1,345 Chemistry 660 704 789 671 616 606 627 626 18 Physics 15 15 Other physical sciences 18 Earth, atmospheric, and ocean 506 506 462 516 592 493 435 404 410 518 393 496 375 463 454 496 376 366 202 345 243 342 338 348 388 422 425 426 284 Computer sciences 189 3.415 3,327 511 3,447 457 3,190 3,310 3,124 2,981 3,131 3,148 Biological sciences 519 564 584 539 606 630 Agricultural sciences 2,919 2,953 2,900 3,071 3 060 2,668 2,683 2,805 2,767 2.747 Psychology 2.321 2,003 1,964 2,062 2,149 2,172 2.250 2,013 2.165 Social sciences 2.169 10,739 721 11,416 11,481 11,956 9,921 9,933 10,936 10,061 10,236 10,017 Non-S&E, total 961 3,484 5,842 780 2,975 729 809 879 657 550 568 606 3,211 5.817 3,274 5,755 2,635 5,776 2.528 2,509 2,610 2,531 2,899 Humanities ¹ 5,605 1,576 5.491 5,245 1,428 5.635 1,484 5,626 Education Professional/other 1,669 1,275 1,339 1,411 1,356 25,974 26,408 27,105 25.560 22.983 23,290 23,400 24,905 23,370 23,083 Grand total, all fields Non-U.S. citizens 7,768 8,926 9,474 9.752 10,532 5.557 6,066 6,515 4,979 5,154 Science and engineering, total 3,495 3,252 2,087 2,305 2,666 3,022 3,154 1,734 1,715 1,887 Engineering, total 120 105 116 68 92 94 102 65 Aeronautical/astronautical 300 332 399 423 286 298 256 272 Chemical 251 312 321 345 393 408 439 474 252 403 274 1.003 383 524 710 822 847 867 394 Electrical 138 139 66 69 99 92 112 Industrial ... 267 288 312 234 270 180 174 148 170 197 Materials/metallurgical 424 300 534 612 641 638 404 297 272 370 289 Mechanical 390 382 255 242 357 436 363 Other engineering 7.037 6,500 5,102 3.979 4.210 3,245 3,439 3,670 Sciences, total 1,698 1,545 34 1,437 1,500 Physical sciences, total 948 1,009 1,037 1,245 761 901 20 34 629 572 41 921 39 39 16 Ástronomy 841 803 546 515 799 486 490 417 Chemistry 652 727 593 662 322 385 431 458 458 PhysicsOther physical sciences 10 Earth, atmospheric, and ocean 190 276 302 120 147 159 145 sciences 561 588 381 471 349 280 308 353 Mathematics 218 236 326 403 132 432 461 170 175 Computer sciences 113 1.549 1,724 508 790 1.042 1,270 491 1,399 534 Biological sciences 532 550 497 337 416 400 Agricultural sciences 238 236 160 198 145 146 1.398 1,478 934 1,055 1,141 1.333 1,333 919 Social sciences 876 2,455 2,423 2,602 1,757 2,023 2,239 1,631 1,750 1,573 1,555 Non-S&E, total 272 722 717 274 698 318 808 201 231 153 134 134 386 136 161 Health Humanities ¹ 415 440 469 537 662 339 719 735 700 591 657 614 654 675 741 671 744 732 400 391 489 500 513 631 11,929 13,134 9,791 11,165 12.175 6.709 7,188 7,816 8,272 6.552 Grand total, all fields



Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1985-94



Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1985-94

Page 4 of 4 Field of study Citizenship unknown 1,371 1,749 Science and engineering, total 1,261 1,498 3 13 14 52 19 21 32 29 11 9 7 17 38 76 32 28 Chemical 76 Electrical 16 38 33 77 79 Industrial Materials/metallurgical 55 23 22 55 Mechanical
Other engineering 107 187 1,178 222 1,375 123 2 74 42 5 Sciences, total 0 44 33 0 44 32 Physical sciences, total 33 2 44 22 63 43 106 3 104 79 Astronomy 88 6 Chemistry 2 Other physical sciences Earth, atmospheric, and ocean 58 13 232 60 15 9 85 38 sciences 23 17 27 32 Computer sciences 30 55 15 80 47 18 18 9 Biological sciences Agricultural sciences Psychology Social sciences Non-S&E, total 419 222 83 Humanities¹ 67 73 36 Education Professional/other 2,393 2,652 1,371 1,172 1,376 2,107 2,196 Grand total, all fields

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates



Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1985-94

_	•		1						Pa	ge 1 of 4
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
					Tol	al	1	1	\	_
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	16.7 .7 2.7 2.1 3.8	17.4 .6 2.7 2.2 4.1	18.7 .7 2.9 2.4 3.9	20.0 .7 3.3 2.5 4.8	20.9 .8 3.3 2.5 5.2	21.4 .8 2.9 2.4 5.6	21.7 .9 2.9 2.4 5.8	22.0 .9 2.9 2.4 6.0	22.4 .9 2.9 2.5 6.1	22.2 .9 2.8 2.6 6.4
Industrial Materials/metallurgical Mechanical Other engineering	.5 1.6 2.7 2.8	.5 1.6 2.8 2.8	.6 2.0 3.3 2.8	.6 1.8 3.4 2.8	.7 1.7 3.5 3.1	.7 1.9 3.9 3.2	.7 2.0 3.6 3.4	.8 2.0 4.0 3.0	.9 2.1 4.1 3.0	.9 2.1 3.9 2.8
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	83.3 15.5 .5 9.7 5.2 .1	82.6 16.1 .6 9.8 5.5	81.3 16.3 .5 9.9 5.7	80.0 16.0 .6 9.6 5.6 .2	79.1 15.0 .5 9.1 5.3	78.6 15.4 .6 9.2 5.5	78.3 15.1 .5 9.1 5.4	78.0 15.3 .5 9.0 5.7 .1	77.6 14.5 .6 8.4 5.5	77.8 15.2 .5 8.6 5.9
Earth, atmospheric, and ocean sciences	3.2 3.6 1.6 20.0 5.9	2.9 3.8 2.1 19.6 5.1	3.0 3.7 2.3 19.3 4.9	3.3 3.6 2.5 19.6 4.8	3.3 4.0 2.8 18.9 5.0	3.2 3.9 3.1 18.9 5.1	3.4 4.3 3.3 19.3 4.5	3.2 4.3 3.5 19.4 4.3	3.0 4.5 3.5 20.0 3.8	3.1 4.3 3.4 19.8 4.1
PsychologySocial sciences	16.5 17.0	16.1 17.1	15.9 15.9	14.7 15.5	14.8 15.3	14.3 14.6	13.5 14.8	13.2 14.6	13.4 14.8	12.9 14.9
					Citizensh	ip known			<u></u>	
Science and enginbering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	.7 2.7 2.1	17.0 .6 2.7 2.2 4.0	18.6 .7 3.1 2.4 3.8			2.4	21.7 .9 2.9 2.4 5.8	21.9 .9 3.0 2.4 6.0	22.2 .9 2.9 2.5 6.1	22.2 .9 2.8 2.6 6.4
Industrial Materials/metallurgical Mechanical Other engineering		.5 1.6 2.7 2.7	.6 2.0 3.3 2.8	3.4	3.4		.7 2.0 3.6 3.3	.8 2.0 4.0 2.9	.9 2.1 4.0 2.9	.9 2.1 3.9 2.7
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	15.5 .5 9.7 5.2		10.1 5.7	16.1 .6 9.7 5.6	.5 9.2 5.3	9.2 5.6	78.3 15.1 .5 9.1 5.4	78.1 15.4 .6 9.0 5.7	.6 8.4 5.5	77.8 15.2 .6 8.6 5.9
Earth, atmospheric, and ocean sciences	3.6 1.7 20.3	3.7 2.0 20.0	3.8 2.3 19.6	3.6 2.6 20.0	3.9 2.9 19.6	3.9 3.1 19.3	4.3 3.4 19.4	3.6 19.7	3.5 20.2	3.1 4.2 3.5 20.0 4.2
PsychologySocial sciences										12.8 14.8

Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1985-94

									Pa	ge 2 of 4
Field of study	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
	ļ				U.S. cl	tlzens		1		
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	9.7	10.6	12.0	13.3	13.8	13.8	14.3	14.5	14.9	14.6
Aeronautical/astronautical	.4	.3	.5	.5 2.7	.5 2.8	.6 2.4	.7 2.4	.7 2.2	.8 2.2	.7 1.9
Chemical	1.8 1.0	1.9 1.1	2.3 1.2	1.4	1.4	1.3	1.2	1.1	1.1	1.3
Electrical	2.1	2.5	2.5	3.0	3.3	3.5	3.8	4.1	4.2	4.2
Industrial	.2	.3	.3	.3	.4	.4	.3	.4	.6	.6
Materials/metallurgical	1.1	.9	1.4	1.3	1.3	1.3	1.4	1.4	1.5	1.4
Mechanical	1.5 1.7	1.6 2.1	1.9 2.0	1.9 2.3	1.9 2.2	2.1 2.2	2.0 2.4	2.4 2.2	2.3 2.2	2.3 2.0
Other engineering										
Sciences, total	90.3 15.6	89.4 15.6	88.0 16.2	86.7 15.9	86.2 14.7	86.2 15.3	85.7 14.5	85.5 14.8	85.1 14.0	85.4 14.5
Astronomy	.6	.7	.6	.7	.6	.6	.6	.7	.7	.7
Chemistry	10.2	10.1	10.7		9.6	9.9	9.2	9.1	8.5	8.5
Physics Other physical sciences	4.7	4.7 .1	4.8 .1	4.7	4.4 .1	4.7 .1	4.6 .1	4.9 .1	4.7 .1	5.2 .1
Other physical sciences	''								,.	
Earth, atmospheric, and ocean	3.3	3.1	3.2	3.7	3.8	3.6	4.0	3.5	3.1	3.3
sciences		2.8	2.7	2.6	2.9	2.6	3.2	3.1	3.3	3.3
Computer sciences	1.4	1.6	1.9	2.1	2.5	2.5	2.7		2.8	2.8
Biological sciences		24.0	23.0	23.4	23.1	22.5	22.6 3.9		23.1 3.1	22.5 3.4
Agricultural sciences	5.2	4.4	4.5	4.0	4.5	4.4	3.5	}	1	i
Psychology	21.4 16.5	21.2 16.6	21.2 15.4	20.0 15.1	19.9 14.6	20.6 14.6	20.2 14.7		20.6 15.1	20.2 15.3
Social sciences	10.5	10.0	15.4	10.1	14.0	14.0				
					Non-U.S	. citizens	•			
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering. total	34.8	33.3	34.0	34.4	35.4	34.3	33.9	33.3	33.3	33.2
Aeronautical/astronautical	1.4	1.3				1.2	1.1	1.3	1.1	1.1
Chemical							3.7 4.4			4.0 4.5
Civil Electrical	5.0 7.9						9.2			9.5
		į .			l I 1.5	1.2	1.3	1.5	1.4	1.3
Industrial		1.3								3.0
Mechanical		5.6	6.7	6.7	6.5	6.9	6.2			6.1
Other engineering	5.5	4.2	4.6	4.0	4.6	4.6	4.9	3.8	3.9	3.7
Sciences, total	. 65.2	66.7								66.8
Physical sciences, total	. 15.3									16.1
AstronomyChemistry							9.0			
Physics	. 6.5	7.5	7.8					7.0	6.7	
Other physical sciences	1	.2	.1	1 .1	.0) .1	.1	.1	.1	.1
Earth, atmospheric, and ocean] .					
sciences	. 2.9									
Mathematics									6 4.4	4.4
			11.7	7 12.3	12.1	13.4	14.2	2 14.8	15.9	16.4
				1 6.9	6.1	1 6.4	5.5	5 5.6	5, 5.1	5.2
Biological sciences	. 8.0	7.1	'	. 1	1		i .	1		1
Biological sciences	l	ļ	1				2.2	2 2.6		

See explanatory information, if any, and SOURCE at end of table.

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Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1985-94

Page 3 of 4 Field of study 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 Non-U.S. citizens with permanent visas 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Science and engineering, total 34.5 32.4 32.5 32.5 30.2 29.7 28.6 27.8 Engineering. total 33.8 32.6 .5 5.7 .7 2.9 2.9 Aeronautical/astronautical 1.8 1.2 Chemical 5.6 4.3 4.4 4.1 5.5 5.2 4.0 3.1 4.3 3.7 3.2 5.1 4.2 3.6 8.9 8.4 9.3 8.8 8.8 Electrical 6.7 10.3 10.0 1.0 2.6 1.0 2.4 6.3 1.0 1.1 2.2 1.9 3.3 5.8 2.5 5.4 Materials/metallurgical 2.3 6.2 3.5 2.4 6.2 5.9 5.8 5.9 2.9 Mechanical Other engineering 66.2 14.7 .2 9.3 4.9 65.5 13.5 67.6 67.5 14.4 69.8 70.3 72.2 Sciences, total 67 4 12.3 13.1 14.4 19.5 Physical sciences, total 13.5 14.0 7.8 6.2 Astronomy 9.4 8.3 5.4 .3 10.7 8.4 Chemistry 8.4 6.5 7.6 8.6 8.1 5.9 Physics Other physical sciences 3.7 5.1 4.9 5.1 5.3 Earth, atmospheric, and ocean 2.3 3.6 4.7 2.5 2.4 3.9 sciences 3.1 3.9 3.8 5.7 5.0 Mathematics 2.6 11.6 22.1 17.4 18.5 3.0 17.0 15.8 4.0 4.8 3.2 Agricultural sciences 4.6 4.7 4.4 6.3 4.4 Psychology Social sciences 18.6 18.6 16.4 18.7 16.6 16.7 12.2 Non-U.S. citizens with temporary visas 100.0 100.0 100.0 100.0 100.0 100.0 Science and engineering, total 100.0 100.0 100.0 100.0 35.4 Engineering total 35.1 33.0 34.3 34.9 36.0 34.5 1.2 4.1 4.7 1.3 4.5 Aeronautical/astronautical 1.0 4.8 4.8 7.7 4.8 5.4 8.5 4.9 4.8 4.4 4.9 3.8 4.3 4.2 Chemical 3.7 4.6 5.1 7.7 5.2 6.9 8.7 9.2 9.2 9.0 Electrical 1.2 3.2 7.1 1.5 2.9 1.5 3.1 1.2 3.6 6.8 3.1 6.1 2.8 6.6 3.2 6.5 3.1 5.9 3.3 5.6 3.1 6.7 Materials/metallurgical 6.6 6.8 Mechanical
Other engineering 4.0 64.0 16.5 65.7 15.6 64.9 67.0 65.1 65.3 16.3 66.1 64.6 Sciences, total 15.4 3 8.2 17.9 18.4 17.6 16.4 16.6 14.8 Physical sciences, total5 8.6 7.4 .5 8.1 7.7 5. 9.0 6.9 9.0 7.2 .5 8.9 8.4 9.0 .4 8.3 6.8 .4 7.9 9.4 6.3 68 8.4 .2 8.2 Physics Other physical sciences Earth, atmospheric, and ocean 2.6 2.3 6.5 2.3 2.8 5.9 2.7 2.7 6.4 6.5 6.8 6.2 2.2 10.5 3.2 11.0 3.3 11.3 4.4 13.9 4.5 14.3 5.8 4.3 15.4 5.5 4.6 11.3 13.0 6.0 Agricultural sciences 8.8 7.0 5.7 7.7 6.5 6.6 6.7 2.0 Psychology 13.9 Social sciences 15.1 15.7 14.4 14.3 13.6 14.8

Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1965-94

Page 4 of 4 1990 1991 1985 1986 1987 1988 1989 1992 1993 1994 Field of study Citizenship unknown 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 Science and engineering, total 27.3 3.0 1.2 3.4 Engineering, total
Aeronautical/astronautical
Chemical 19.5 .8 1.3 22.8 .4 28.8 1.2 22.6 .8 1.7 18.6 22.0 21.4 21.4 29.0 .4 1.6 1.7 1.0 2.7 1.4 2.7 1.8 2.3 2.1 5.9 Civil 6.0 Electrical 5.7 8.0 6.1 .7 1.3 0. Industrial
Materials/metallurgical Mechanical 3.7 3.4 3.6 6.9 4.0 Other engineering 5.8 81.4 14.9 .2 9.0 5.1 .6 71.2 14.0 .0 8.2 80.5 78.6 78.6 Sciences, total 78.0 7.2 6.1 12.2 .0 6.9 5.0 14.2 .3 7.6 5.8 11.8 .2 7.8 3.5 15.5 .0 8.3 6.2 .9 Physical sciences, total 14.8 14.8 .4 8.1 5.9 Astronomy 7.7 6.9 9.4 4.7 Chemistry 5.6 Physics Other physical sciences Earth, atmospheric, and ocean 3.1 4.9 2.2 11.9 4.6 2.7 3.9 1.0 13.7 3.6 3.1 2.3 15.0 4.0 3.9 .9 15.5 4.0 6.2 2.3 11.2 2.8 5.1 3.0 12.4 2.0 6.4 3.2 10.9 Computer sciences 13.9 10.2 5.0 14.1 3.8 Biological sciences 1.7 Agricultural sciences 4.0 18.4 18.9 17.5 Psychology 20.6 20.9 21.1 14.6 Social sciences 19.0 18.0 19.3 17.4 13.8 15.8 16.4 15.8 19.1

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates







Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1985-94



Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1985-94

Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1985-94

Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates, by country of citizenship, visa type, and year of doctorate: 1985-94

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 6. institutions conferring science and engineering (S&E) doctorates, by State, institution, and major field: 1994

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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		Page 1 Engineering Physical sciences										
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trical	Mechan- ical	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physi- cal sci- ences
Total, all institutions	-	26,211	5,826	725	684	1,675	1,015	1,727	3,975	1,692	2,254	29
Alabama, total Alabama A&M University Auburn University United States Sports Academy University of Alabama	26 152 74 154 101	258 2 107 0 56	62 0 31 0 16	0 4 0	8 0 5 0 3	13 0 7 0 2	5 0	24 0 10 0 5	34 2 8 0 5	27 2 5 0 2	7 0 3 0 3	0 0 0 0
University of Alabama Birmingham University of Alabama Huntsville University of South Alabama	99 125 148	58 29 6	4 11 0	0 0 0	0	0 4 0		. 4 5 0	6 13 0	13 0	1 0 0	0 0 0
Alaska, total University of Alaska Fairbanks	50 130	24 24	0		0	0		0	7 7	7	0	0
Arizona, total Arizona State University Main Northern Arizona University University of Arizona	18 51 147 18	465 156 7 302) 0	3	11 8 0 3	30 8 0 22	12	44 18 0 26	90 27 0 63	12	31 14 0 17	6 1 0 5
Arkansas, total U of Arkansas Little Rock U of Arkansas Med Sci U of Arkansas	40 146 143 97	79 8 11 60		0	0 0 0 0	4 3 0 1	Ö	7 4 0 3	8 1 0 7	0	7 0 0 7	0 0 0
California, total Biola University CA Inst Integral Studies CA Inst Technology CA Sch Prof Psych Fresno	1 145 126 54 101	3,584 9 28 151 56	0 0 53	0 0 7	94 0 0 2 0	19	0 0 11	199 0 0 14 0	520 0 0 61 0	0 0 31	265 0 0 26 0	9 0 0 4 0
CA Sch Prof Psych Los Angeles CA Sch Prof Psych San Diego CA Sch Prof Psych Berkeley Claremont Graduate School Fielding Institute	96 91 83 135 114	61 68 83 19 41	0	0 0	0 0 0 0		0 0	0	0000	0 0	0 0	0 0 0 0
Fuller Theological Seminary CA Golden Gate Baptist Seminary Graduate Theological Union Hebrew Union Col CA Branch Loma Linda U La Sierra Campus	129 154 153 154 154	0		0 0	0 0 0 0			0 0		0 0	0 0	0
Loma Linda University Naval Postgraduate School Pacific Grad School of Psych Pepperdine University Rand Grad Sch of Policy Studies	144 139 121 154 151	15 33 0		0 0	0			0 0		0 0	0 0	0
Research Inst of Scripps Clinic San Diego State University Santa Clara University Saybrook Institute Stanford University	135	19 5	5 .				0 0 4 1 0 0 9 36	000		0 0 0	3 0 0	0
United States International U	147 1 21	678 283	7 193 3 193 3 4	6 4	32	4	B 10	41	118	21	53 29	0 1
U of California Los Angeles	77 30 94	98 238 63	3 3	0 0 3 1 6 0		1	0 8 0		31 31	6 11 9 20 7 0	15	0 2 0
U of California Santa Cruz University of La Verne University of San Diego University of San Francisco University of Southern CA Wright Institute, All Campuses	90 146 154 154 17 129	305	8 0 0 5 8	0 0 0			0 0 0 8	0 0	3	0 0		



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	Earth,	Mathe-	Com- puter		liological d ultural scie		Psy-	Social	Non-	Grand total.
State and institution	atmos, ocean	matics	sci- ences	Total	Bio- logical	Agrí- cul- tural	chology	sci- ences	S&E. total	all fields
Total, all institutions	824	1,118	904	6,275	5,197	1,078	3,389	3,900	14.800	41,011
Alabama, total Alabama A&M University Auburn University United States Sports Academy University of Alabama	3 0 0 0 2	12 0 8 0 2	7 0 2 0 0	81 0 33 0 3	10 0	23 0 23 0 0	0	22 0 8 0 14	215 0 45 1 120	473 2 152 1 176
University of Alabama Birmingham University of Alabama Huntsville University of South Alabama	0 1 0	2 0 0	4	39 0 6	0	0 0 0	0		49 0 0	107 29 6
Alaska. total University of Alaska Fairbanks	12 12	0		3 3		0			0 0	24 24
Arizona, total	35 3 0 32		13 0	94 9 4 81	9 4	0	21 0	30	287 100 47 140	752 256 54 442
Arkansas, total	0 0 0	0	0	11	0		0	0	70 0 0 70	149 8 11 130
California. total Biola University CA Inst Integral Studies CA Inst Technology CA Sch Prof Psych Fresno	! 6	10	0 0	16	0 0		9 28 0 0	0 0 3	1.318 10 3 0 0	
CA Sch Prof Psych Los Angeles CA Sch Prof Psych San Diego CA Sch Prof Psych Berkeley Claremont Graduate School Fielding Institute			0 0)		68 0 83 0 5	0 0 10		83
Fuller Theological Seminary CA Golden Gate Baptist Seminary Graduate Theological Union Hebrew Union Col CA Branch Loma 'Linda U La Sierra Campus							24	0 1	20	3 2t 2
Loma Linda University Naval Postgraduate School Pacific Grad School of Psych Pepperdine University Rand Grad Sch of Policy Studies			30 0				5! 30 0 0	0	0 0	15 33 17
Research Inst of Scripps Clinic San Diego State University Santa Clara University Saybrook Institute Stanford University			0 0		B 8	3	0 0	0 8 0 9 2 9 58		25 5 11
United States International U	1	0 3 9	0 1 24 8	5	3 2 11 6 11	3 2 2 3 2	0 2	0 0 7 130 5 24	15 213 38	22 891 321
U of California Los Angeles	1	0 7 1 0	5 4 1	0 d 8 6 0 3	3 2 6 8		0 1	5 77 2 12 3 29 4 8	3:	7 135 5 2/0 2 85
U of California Santa Cruz University of La Verne University of San Diego University of San Francisco University of Southern CA Wright Institute, All Campuses		0	0 0 0 3 2	0	0	7 0 0 0 0 0	0 3	0 0 0 4 8	1: 0 6 4 19	56 3 13 1 61

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			_		Engine	ering				Physical	sciences	ge 3 OT 16
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trical	Mechan- ical	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physical sciences
Colorado, total Colorado School of Mines Colorado State University University of Colorado Boulder University of Denver University of Northern Colorado	16 107 52 22 130 142	5:1 50 153 272 24 12	128 17 44 67 0	9 3 4 2 0	42 0 23 19 0	31 0 8 23 0	2 5 0	39 14 7 18 0	88 5 18 64 1	41 4 3 34 0	1	0 0 0 0 0
Connecticut, total University of Connecticut University of Hartford University of New Haven Wesleyan University Yale University	22 40 154 154 139 32	413 176 0 0 15 222	51 35 0 0 0 16	14 13 0 0 0	220000	15 8 0 0 0 7	7	550000	75 24 0 0 9 42	31 7 0 0 2 22	0 7	00000
Delaware, total	38 77	98 98	33 33	16 16	4	5 5		0	10 10	4		0
District of Columbia, total American University Catholic University of America Gallaudet University George Washington University Georgetown University Howard University	25 112 118 154 75 95 109	295 44 37 0 105 62 47	35 0 6 0 23 0 6	0000000	4 0 3 0 1	15 0 2 0 10 3	0 1 0 1	13 0 0 0 11 0 2	26 6 4 0 6 4 6	6 3 1 0 0 0 2	4	0 0 0 0 0
Fiorida, total Barry University Florida Atlantic University Florida Institute of Technology Florida International University	10 154 129 143 146	683 0 25 11 8	140 0 16 7 0	7 0 0 0	21 0 0 0 0	43 0 11 3 0	0 1 2	52 0 4 2 0	85 0 2 0 0	30 0 2 0 0	0 0 0	1 0 0 0
Florida State University Nova Southeastern University University of Central Florida University of Florida University of Miami University of South Florida	73 114 139 15 88 90	109 41 15 333 72 69	3 0 8 83 11 12	0 0 0 6 0	0 0 2 15 4 0	0 0 4 20 1 4	0	1 0 1 36 1 7	18 0 1 52 6 6	10 0 1 16 1	0 36 5	1 0 0 0 0
Georgia, total Clark Atlanta University Emory University Georgia Inst of Tech Georgia State University	19 133 108 39 117	456 21 48 190 38	136 0 0 135 0	0	12 0 0 12 0	45 0 0 45 0	0 0 25	45 0 0 45 0	49 2 9 16 5	12 0 0 7 3	9 9	0 0 0 0
Inst of Paper Science & Tech	150 151 53	4 3 152	1 0 0		0 0 0	0 0 0	Ō	າ ບ 0	0 0 17	0 0 2	Ŏ	0 0 0
Hawaii. total University of Hawaii at Manoa	37 65	126 126	4		0	1	;	2 2	11 11			0
Idaho. total Idaho State University University of Idaho	42 142 106	63 12 51		0	1 0 1	3 0 3	0	3 0 3	8 0 8	0	0	
Illinois. total De Paul U .versity Finch U Hlth Sci*Chgo Med Sch Illinois Institute Technology Illinois State University	5 146 126 97 145	1,357 8 28 60 9	0	0 0 3	44 0 0 2 0	99 0 0 4 0	0 0 1	0	206 0 0 6 0	0 0 5	0 0	0 0
Loyola University of Chicago Lutheran Sch Theology at Chicago Northern Illinois University Northwestern Univ Roosevelt University	110 154 123 31 154	46 0 31 224 0	0 0 86	0 0 11	0 0 0 12 0	0 0 0 21	0 0 16	0 26	6 0 2 30 0	0 0 11	0 2 19	0 0 0
Rush University Southern Illinois U Edwardsville Southern Illinois U Carbondale University of Chicago	143 154 92 29 43 5	11 0 66 238 170 466	0 2 0 50	0 0 0 3	0 0 1 0 6 23	1 0 9	0 0 0 23	0 0 0 9	6 47 35	0 2 25 8	0 4 22 27	0 0 0

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	Earth,	Mathe-	Com- puter		iological a altural scie		Psy-	Social	Non-	Grand total.
State and institution	atmos, ocean	matics	sci- ences	Total	Bio- logical	Agri- cul- tural	chology	sci- ences	S&E. total	all fields
Colorado, total	40 17 7 16 0	34 6 8 12 0 8	20 0 4 16 0	79 0 40 39 0	63 0 24 39 0	16 0 16 0 0	0 18 19 8	75 5 14 39 15 2	196 0 22 82 38 54	707 50 175 354 62 66
Connecticut, total University of Connecticut University of Hartford University of New Haven Wesleyan University Yale University	3 1 0 0 0 2	14 5 0 0 2 7	7 0 0	108 44 0 0 4 60		4 1 0 0 0 3	28 0 0 0	96 32 0 0 0 64	208 70 1 4 6 127	621 246 1 4 21 349
Delaware, total	8 8	3		12 12		1		13 13	23 23	121 121
District of Columbia, total American University Catholic University of America Gallaudet University George Washington University Georgetown University Howard University	1 0 0 0 1 0	2 1 0 1 0	0 0 0 8 0	57 0 6 0 26 19	0 6 0 26 19	000000000000000000000000000000000000000	15 14 0 15	21 6 0 25 38	165 15 64 6 44 13 23	6 149
Florida, total Barry University Florida Atlantic University Florida Institute of Technology Florida International University	27 0 0 0 2	1 1	0 0	1 1	0 1			0 4 0	5 9 3	5 34 14
Florida State University Nova Southeastern University University of Central Florida University of Florida University of Miami University of South Florida	3		17 1 1 7 3 1	92	0 0 2 5 6 15	36	18 37 37 1 22	6 0 50 2	374 30 103 43	415 45 436 115
Georgia, total Clark Atlanta University Emory University Georgia Inst of Tech Georgia State University) 2) 12) 1	2 12 1 11		21 20 21 21	9 3 11 5 0	20 46 12 77	41 94 202 115
Inst of Paper Science & Tech Medical College of Georgia University of Georgia		5 (0 0) :		3 (ō] d	33	1 3	6
Hawaii, total	14			2 2			7 12 7 13			
Idaho. total	1 (5 :	3 (2	6 (0		25 3 2 17	3 20
Illinois, total		0 0 0	0 0 0 2:	1	0 8 1	0 B 1	0 1 0 1	B (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)		12 28 60
Loyola University of Chicago Lutheran Sch Theology at Chicago Northern Illinois University Northwestern Univ Roosevelt University		0 2 3 1	0 1 4 1	0 3	0 7 1 3	0 7 1	0 1	0 (7 1: 7 3:	2 70 2 9:	4 4 6 107
Rush University Southern Illinois U Edwardsville Southern Illinois U Carbondale University of Chicago U of Illinois Chicago U of Illinois Urbana-Champaign		0 2 6 1 4 1	0 2 4 2	0 0 1 3 4	0 8 1 8 4 3 3	0 7 8 3	0 1 1 0 2	~ I	0 10 8 10 7 15 2 6	5 393 2 232

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					Engine	ering				Physical	sciences	
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trical	Mechan- ical	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physical sciences
Indiana. Iotal Ball State University Indiana Stale University Indiana U at Bloomington Indiana U Purdue U Indianapolis	9 134 137 44 154	686 20 17 169 0	156 0 0 0	23 0 0 0	24 0 0 0	49 0 0 0	0	38 0 0 0	126 0 0 36 0	37 0 0 12 0	89 0 0 24 0	0 0 0 0
Purdue University University of Notre Dame	11 86	404 76	140 16	20 3	21 3	45 4	20 2	34 4	74 16	16 9	58 7	0 0
lowa, total Drake University lowa State University Maharishi International U University of Iowa University of Northern Iowa	21 154 26 150 50 152	422 0 259 4 157 2	103 0 65 0 36 2	906030	17 0 9 0 8	18 0 10 0 8	20 0 8	31 0 20 0 9 2	74 0 45 2 27 0	22 0 11 2 9 0	52 0 34 0 18 0	0 0 0 0 0
Kansas, total Kansas State University University of Kansas Wichita State University	28 75 66 134	250 105 125 20	47 14 20 13	7 1 6 0	6 3 3 0	11 4 2 5	1 4	15 5 5 5	30 8 19 3	6 3 3 0	24 5 16 3	0 0 0
Kentucky, total Southern Baptist Theological Sem University of Kentucky University of Louisville	33 150 60 116	185 4 142 39	29 0 21 8	5 0 2 3	2 0 2 0	4 0 2 2	10	8 0 5 3	32 0 26 6	8 0 8 0	24 0 18 · 6	0 0 0
Louisiana, total Grambling State University LA St U & A&M Col LA St U Med Ctr Shreveport LA St U Medical Center	27 154 63 148 143	254 0 135 6 11	42 0 28 0 0	9 0 7 0	10 0 8 0 0	4 0 2 0 0	0 4	11 0 7 0	21 0 15 0	0	13 0 8 0 0	0 0 0 0
Louisiana Tech University New Orleans Baptist Theo! Sem Northeast Louisiana University Southern U A&M Col Baton Rouge Tulane University	152 153 151 154 98	2 1 3 0 59	2 0 0 0 10	0	1 0 0 0	0 0 0 0	0 0	0 0 0 0 4	0 0 0 0 5	Ö	0 0 0 0 4	0 0 0 0
University of New OrleansU of Southwestern Louisiana	140 131	14 2?	0 2		0	0 2		0	1 0		1 0	0
Maine, total University of Maine	47 116	39 39	10 10		3 3	1		3 3	5 5		2 2	0 0
Maryland. total Johns Hopkins University Loyola College Morgan State University Peabody Inst of Johns Hopkins U	13 40 145 154 154	621 176 9 0 0	0	6 0 0	21 4 0 0 0	49 1 0 0 0	5 0 0		75 19 0 0 0	12 0 0	20 5 0 0	2 2 0 0
Uniformed Services U of Hith Sci U of Maryland Baltimore U of Maryland College Park U of Maryland Baltimore County U of Maryland Eastern Shore	143 116 14 123 152	353 31	98 6	0 3 2		45	0 14 0	0 19 1	1 51 4	0 34 1	1 17 3	0
Massachusetts, total American International College Boston College Boston University Brandeis University Clark University	154 106 54 93 133	51 151 64	0 0 11 1	0 0	0 0 0 0	0 0 7	0 0 1	0 0 3 0	0 7 28 10	0 3 25 3	0 4 3 7	0
Harvard University MA Col Phar Allied Hith Massachusetts Institute of Tech Northeastern University Simmons College	16 147 3 90 154	490	193 193	0 22 0	0 11 1	49 14	0 34 1 1	77 3	113 113	73 4	39 7	0 1 0
Smith College Springlield College Tufts University U of Massachusetts Amherst U of Massachusetts Boston	87 37	73 199	9 46	0 1 10	0 0 5	23	0 5 1 5 5	0 2 3	9 42	0 6 1 1	0 3 31	0 0

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									Pag	e 6 of 16
	Earth,	Mathe-	Com- puter		siological a ultural scie		Psy-	Social	Non-	Grand total.
State and institution	atmos, ocean	matics	sci- ences	Total	Bio- logical	Agri- cul- tural	chológy	sci- ences	S&E. total	all fields
Indiana, total Ball State University Indiana State University Indiana U at Bloomington Indiana U Purdue U Indianapolis	16 0 0 7 0	45 0 0 11	19 0 0 3 0	130 0 3 44 0	109 0 3 44 0	21 0 0 0	82 18 12 16	112 2 2 52 0	379 35 17 192 11	1.065 55 34 361 11
Purdue University	9	27 7	16 0	73 10		21 0	26 10		91 33	495 109
lowa, total Drake University lowa State University Maharishi International U University of lowa University of Northern Iowa	5 0 1 0 4	24 0 13 0 11	0 3 0 2	132 0 92 2 38 0	0 56 2 38	0	0 13 0 14	27 0 25	260 12 47 1 184 16	682 12 306 5 341 18
Kansas, total Kansas State University University of Kansas Wichita State University	3	17 9 6 2	4 0	83 54 27 2	18	36	33	11 17	165 49 112 4	415 154 237 24
Kentucky, total Southern Baptist Theological Sem University of Kentucky University of Louisville	0 2		0 3	53 0 41 12	32		3	1 25	144 39 86 19	329 43 228 58
Louisiana, total	8		0 8	6	26) () 14) (15	0 5 17 0	192 8 82 0 6	217 6
Louisiana Tech University New Orleans Baptist Theol Sem Northeast Louisiana University Southern U A&M Col Baton Rouge Tulane University			0 0 0					0 0	17 26 2 1 23	27 5 1
University of New Orleans U of Southwestern Louisiana			0 4 14		3 3			5 0 0	19	
Maine. total University of Maine			1 0					6 0 6 0		
Maryland. total Johns Hopkins University Loyola College Morgan State University Peabody Inst of Johns Hopkins U			8 30 4 0 0 0 0 0	6	8 66 0 0	B 0 0	0	8 102 6 41 9 0 0 0	86	262 9 9
Uniformed Services U of Hlth Sci U of Maryland Baltimore U of Maryland College Park U of Maryland Baltimore County U of Maryland Eastern Shore		0 7 2	0 0	3 4 5	8 3 9 4 5	8 5 1 5	0 4 0	4 0 0 0 6 57 3 4 0 0	17	
Massachusetts, total American International College Boston College Boston University Branders University Clark University		2 6 0 1 0 0	0 8 9	0 0 4 5 1 1	0 6 6 5	0	0 2	9 304 0 0 5 35 4 26 5	6 13 3	4 115 281
Harvard University MA Col Phar Allied Hith Massachusetts Institute of Tech Northeastern University Simmons College	3	ōl	0 29 2 4	4 11 0 4 4 7	3	0 3 6 6 0	0	7 48 10 1	2 2	551 2 9 6 516 5 74 3
Smith College Springfield College Tufts University U of Massachusetts Amherst U of Massachusetts Boston		0 0 0 1 2	0 0 4 1			0 0 30 35 1	0 0 0 12 0	0 5 2 20 2	0	5 5 2 2 6 79 9 338 0 4

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			<u></u>		Engine	ering				Physical		e 7 of 16
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trical	Mechan- ical	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physical sciences
Massachusetts, continued U of Massachusetts Worcester U of Massachusetts Lowell Worcester Polytechnic Institute	143 114 137	11 41 17	0 13 10	0 4 3	0	0 7 2	0 0 2	0 2 3	0 25 0	0 16 0	0 9 0	0 0 0
Michigan, total Andrews University Eastern Michigan University Michigan State University Michigan Technological U	8 151 154 23 134	964 3 0 271 20	245 0 0 30 11		23 0 9 2	66 0 0 8 0	0 0 6	76 0 0 5 3	148 0 0 44 1	0	99 0 0 27 0	0 0 0 0
Oakland University	144 142 4 48 137	10 12 469 162 17	6 1 161 36 0	3	0 0 7 5	1 0 46 11	1 42 11	5 0 57 6 0	2 0 69 32 0	0 26 4	1 0 43 28 0	0 0 0 0
Minnesota, total Luther Seminary Mayo Graduate School U of Minnesota Twin Cities University of St Thomas Walden University	17 154 140 6 154 122	484 0 14 438 0 32	109 0 0 108 0		12 0 0 11 0	20 0 0 20 0	0 0 22 0	23 0 0 23 0	59 0 0 59 0	0 0 25 0	34 0 0 34 0	0 0 0 0
Mississippi, total Delta State University Jackson State University Mississippi State University U of Mississippi Med Ctr	36 154 154 89 151	135 0 0 70 3	16 0 0 9	0 0 2	1 0 0 0	2 0 0 1 0	0	0	18 0 4 0	0 0	14 0 0 4 0	0 0 0 0
U of Mississippi U of Southern Mississippi	127 120	27 35	6 1		1 0	1 0			5 9		1 9	0
Missouri, total Concordia Seminary Midwestern Baptist Theol Sem St Louis University University Missouri Columbia	20 154 153 113 50	443 0 1 42 157	97 0 0 0 30	0 0	13 0 0 0 3	23 0 0 0 11	0	0	·64 0 0 0 17	0 0 0	0	0 0 0 0
University Missouri Kansas City University Missouri Rolla University Missouri St Louis Washington University	131 92 146 57	23 66 8 146	0 42 0 25	5	0 4 0 6	0 5 0 7	5 0	23	3 17 3 24	7	10 3	0 0 0 0
Montana, totalMontana State University	46 133 135	40 21 19	1 1	0	0 0 0	1 1	0	j	8 6 2	2	4	0 0 0
Nebraska, total Creighton University U of Nebraska at Lincoln	35 149 61	145 5 140	18 0 18	0		4	0	0		0	0	
Nevada, total University of Nevada-Las Vegas University of Nevada-Reno	48 151 123	3	, c) 0	0			0	0) 0		0
New Hampshire, total Dartmouth College University of New Hampshire	39 105 111	52	10) 0	0		2 1	7	16 10) 6	4	
New Jersey, total Drew University Fairleigh Dickinson U Rutherford New Jersey Institute Technology Princeton Theological Seminary	152 143 126	11 28	23	0 0 0	0 3	0	0 0	0 0	0		0 0	0 0
Princeton University Rutgers St U NJ New Brunswick Rutgers St U NJ Newark Campus Seton Hall University Stevens Institute of Technology U of Medicine & Dentistry of NJ	25 126 149 133	264 28 5 21	70	0 0	0000	17		31 0 0 0 2	33	3 12 3 0 4 0	21 8 4 1 1	0 0 0

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-	Earth,	Mathe-	Com-		iological iltural scie		Psy-	Social	Non-	Grand total,
State and institution	atmos. ccean	matics	sci- ences	Total	Bio- logical	Agri- cul- tural	chológy	sci- ences	S&E, total	all fields
Massachusetts, continued U of Massachusetts Worcester U of Massachusetts Lowell Worcester Polytechnic Institute	0	0 0	0 3 2	11 0 5	11 0 5	0 0	0 0 0	0 0 0	0 22 0	11 63 17
Michigan, total Andrews University Eastern Michigan University Michigan State University Michigan Technological U	j o	37 0 0 13 0	30 0 0 8 0	233 0 0 100 5	184 0 0 54 4	49 0 0 46 1	113 3 0 24 0	134 0 0 50 0	546 16 1 147 2	1,510 19 1 418 22
Oakland University University of Detroit Mercy University of Michigan Ann Arbor Wayne State University Western Michigan University	19	21 3	11	2 0 79 47 0	2 0 77 47 0	0 0 2 0 0	11 42 23	0 0 67 10 7	5 0 235 101 39	15 12 704 263 56
Minnesota, total Luther Seminary Mayo Graduate School U of Minnesota Twin Cities University of St Thomas Walden University	0 0 5 0	0 0 23 0	0 0 19 0	121 0	90 0	0 0 31 0	0 0 50 0	53	395 7 1 268 12 107	879 7 15 706 12 139
Mississippi, total Delta State University Jackson State University Mississippi State University U of Mississippi Med Ctr	0	0	0 0	0 0 33	0 0	21	0 0 5	0 0 14		124
U of Mississippi U of Southern Mississippi	. 0								51 60	78 95
Missouri, total) 0) 0	22	22)	0 0 8	24 71	2 25 113
University Missouri Kansas City University Missouri Rolla University Missouri St Louis Washington University		i 1	5	(14		0	66 16
Montana, total Montana State University University of Montana	. (3 (12	2	7	5 (5 1 5 1	13	34
Nebraska. total Creighton University U of Nebraska at Lincoln) (3 5) :	5 :	5 (ו (כ) (5
Nevada. total	.	Ō	ò] (5	1	1	0 (5 3	2 8	3 11
New Hampshire, total Dartmouth College University of New Hampshire	ł	2	4	5 25 5 1	7 1	7		1 8 4 0 7 8	i) (52
New Jersey, total Drew University Fairleigh Dickinson U Rutherford New Jersey Institute Technology Princeton Theological Seminary		0	0 0 0	0 4	0 0 0	0	0 0 0	0 0	2 20	28 11 28
Princeton University		8 1 0 0 0	6 1 0 0 0	0 8 0 1 0	8 6 0 1 1 0	5 2 0 1	3 1 0 0 0	0	11 3 15 0 3	1 375 5 43

See explanatory information, if any, and SOURCE at end of table



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					Engine	ering				Physical	sciences	
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trical	Mechan- ical	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physical sciences
New Mexico, total New Mexico Inst Mining & Tech New Mexico State University University of New Mexico	34 142 104 76	165 12 53 100	32 1 14 17	3 1 0 2	3 0 1 2	17 0 7 10	3	6 3 3	29 1 7 21	16 1 2 13	13 0 5 8	0 0 0
New York, total Adelphi University Albany Medical College Alfred University Clarkson University	2 130 146 149 109	2,549 24 8 5 47	486 0 0 5 29	0	35 0 0 0 4	164 0 0 0 5	0 0	125 0 0 5 5	404 0 0 0 14	0 0	193 0 0 0 11	2 0 0 0
Columbia U in City of New York Cornell U Medical Campus Cornell U Endowed Colleges CUNY Grad School & U Center Fordham University	24 130 5 34 109	268 24 466 207 47	63 0 112 15	0 15 1	4 0 11 0 0	0 22 5	0 24 4	5	46 0 74 39 0	0 40 19	19	0 0 1 0
Hofstra University Jewish Theological Sem America Juilliard School Long Island University Brooklyn Manhattan School of Music	112 154 154 144 154	44 0 0 10 0		000	0 0 0 0	0 0	0 0	0 0	Ŏ	0 0	0 0	0 0 0 0
New School For Social Research New York Medical College New York University Pace University New York Campus Polytechnic University	116 144 52 154 106	39 10 153 0 51	0 1 0	0 0	0 0 0 0 3	000	0 0	0 1 0	19 0	10 0	9	0 0 0 0
Rensselaer Polytechnic Institute Rockefeller University St John's U (Jamaica, NY) Syracuse University SUNY at Albany	47 129 138 68 81	164 25 16 117 89	30	0 0 1	2 0 0 1	27		0 0	1 14	0 8	0 1 6	0 0 0 0
SUNY at BinghamtonSUNY at BuffaloSUNY at Stony BrookSUNY Col Environ Sci & ForestrySUNY Health Sci Ctr Brooklyn	87 38 35 135 136	73 196 204 19	15 15	0 0	10 10 0		' 3	9 5 0	26 55	10 5 26 3 0	16 28 3	1 0
SUNY Health Sci Ctr Syracuse Teachers College Columbia U Union Theological Semnary University of Rochester Yeshiva University	154 46	14 0 0 167 44	29	0 0				0 0 7	48			0 0
North Carolina, total Campbell University Duke University East Carolina University North Carolina State U Raleigh	l 56	149	34 34	0 0		2	0 (7 12 0 (13	2	5 8	0 3 17 0	0 0
U of North Carolina Chapel Hill U of North Carolina Greensboro Wake Forest University		16	s (7 0	1 ([o]	ŏ (0 7)	0 (38) 0
North Dakota, total North Dakota State University University of North Dakota	124	. 30) ') (o l	1 (3		0 0

See explanatory information, if any, and SOURCE at end of table.



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	Earth,	Mathe-	Com- puter		iological a ultural scie		Psy-	Social	Non-	Grand total,
State and institution	atmos, ocean	matics	sci- ences	Total	Bio- logical	Agri- cul- tural	chology	sci- ences	S&E. total	all fields
New Mexico, total New Mexico Inst Mining & Tech New Mexico State University University of New Mexico	16 8 0 8	10 0 3 7	4 2 2 0	29 0 16 13	19 0 6 13	10 0 10 0	21 0 11 10	24 0 0 24	76 0 11 65	241 12 64 165
New York, total Adelphi University Albany Medical College Alfred University Clarkson University	56 0 0 0	112 0 0 0 1	93 0 0 0	573 0 8 0 3	525 0 8 0 3	48 0 0 0 0	381 24 0 0	444 0 0 0	1,347 13 0 0	3.896 37 8 5 47
Columbia U in City of New York Cornell U Medical Campus Cornell U Endowed Colleges CUNY Grad School & U Center Fordham University	9	10 0 21 5	8 0 16 6	40 24 127 53 6	40 24 85 53 6	0 0 42 0 0	0 13 38	67 0 94 47 15	169 0 106 79 51	437 24 572 286 98
Hofstra University Jewish Theological Sem America Juilliard School Long Island University Brooklyn Manhattan School of Music	0	0 0 0 0	0 0	0 0 0 0	0 0		() (. 10	0 0 0 0	20 5 6 0 11	64 5 6 10 11
New School For Social Research New York Medical College New York University Pace University New York Campus Polytechnic University	0	15 0	0 15 0	10 29 0	10 29 0		0 38 0	19 0 36 0	7	40 10 381 7 51
Rensselaer Polytechnic Institute Rockefeller University St John's U (Jamaica, NY) Syracuse University SUNY at Albany			0 0	34	24 3 8		0 12 14	0 32	0 15 60	31
SUNY at Binghamton SUNY at Buffalo SUNY at Stony Brook SUNY Col Environ Sci & Forestry SUNY Health Sci Ctr Brooklyn	16	15	7 5 7 0 0	56 58 14	56 58 58 58		31	27 23 0	154 65 0	350 269 19
SUNY Health Sci Ctr Syracuse Teachers College Columbia U Union Theological Seminary University of Rochester Yeshiva University) () (5 34) () (1 34		0 0	0 0	200 5 69	200 5 236
North Carolina. total Campbell University Duke University East Carolina University North Carolina State U Raleigh		1	0 0 5 2 0 0) (0 (2 4: 8 (1 1	0 7	30	10 0 55 0 3	10 204 11
U of North Carolina Chapel Hill U of North Carolina Greensboro Wake Forest University	.	5	0 (2	2	0 24	t] (56	72
North Dakota. total North Dakota State University University of North Dakota		ō	2	7 2 7 1	7	7 1	0 1: 0 0) (_	30

See explanatory information, if any, and SCURCE at end of table.



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					Engine	eering				Physical		11 of 16
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trical	Mechan- ical	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physical sciences
Ohio. total Air Force Institute Technology Bowling Green State University Case Western Reserve University Cleveland State University	7 130 115 59 139	1,081 24 40 144 15	324 20 0 61 10	52 0 0 16 2	27 0 0 3 0	72 9 0 8 2	0	123 11 0 25 3	201 4 4 29 3	62 4 0 2 0	139 0 4 27 3	0 0 0 0
Hebrew Union Col-Jewish Inst Relig Kent State University Medical College of Ohio Miami University Oxford Campus Ohio State University	154 100 142 129 10	0 57 12 25 406	0 0 0 0 97	00009	0 0 0 8	0 0 0 18	0 0	0 0 0 42	0 14 0 1 67	0 10 0 0 23	0 4 0 1 44	0 0 0 0
Ohio University University of Akron University of Cincinnati University of Dayton University of Toledo Wright State University	116 82 42 141 116 146	39 88 171 13 39 8	8 27 71 12 16 2	1 15 7 0 2	0 4 12 0 0	6 2 16 4 6	3 10 4	1 3 26 4 7 1	9 33 25 0 12 0	7 8 5 0 3	2 25 20 9 0	0 0 0 0
Oklahoma, total Oklahoma State University University of Oklahoma Norman University of Tulsa	30 69 80 135	224 115 90 19	55 23 22 10	22 6 6 10	6 4 2 0	9 5 4 0	5	9 4 5 0	30 19 11 0	14 10 4 0	16 9 7 0	0 0 0
Oregon, total Oregori Grad Inst Science & Tech Oregon Health Sciences U Oregon State University Portland State University University of Oregon	24 141 141 49 134 72	316 13 13 159 20 111	35 4 0 28 3 0	3 0 3 0 0	10 1 0 9 0	8 0 0 6 2 0	0 0 5 0	9 3 5 1 0	34 2 0 13 0 19	20 1 0 4 0 15	14 1 0 9 0 4	0 0 0 0 0
Pennsylvania, total Bryn Mawr College Carnegie Mellon University Drexel University Duquesne University	6 139 60 102 153	1,314 15 142 55	394 0 83 39 0	51 0 10 2 0	36 0 8 8 0	107 0 38 15 0	0 9 8	133 0 18 6	181 3 11 6	63 0 6 1	112 3 5 5	6 0 0 0
Indiana University Pennsylvania Lehigh University Medical Col PA, the	146 85 142 145 13	8 79 12 9 380	0 41 0 0 148	0 8 0 0 14	0 8 0 0 7	0 9 0 0 27	0 0		0 16 0 0 64		0 5 0 0 40	0 0 0 0 4
Philadelphia Col Pharmacy & Sci Temple University Thomas Jefferson University University of Pennsylvania University of Pittsburgh	150 70 128 19 41	4 113 26 294 172	0	9	0 0 0 1 4	0 2 0 9 7	0 0 6	0	2 10 0 26 38	9	2 8 0 15 24	0 0 0 2 0
Villanova University Westminster Theological Seminary Widener U Pennsylvania Campus	150 154 154	4 0 0			0 0 0		0	ŏ		Ŏ	0	
Rhode Island. total	32 67 86	196 120 76	20	1	0 0 0	3	11 6 5	10		13	14	0
South Carolina, total Clemson University Medical U South Carolina South Carolina State University U of South Carolina at Columbia	31 79 135 154 78		33	3 0 0	6 4 0 0 2	5 0 0	8 0 0 0	13 1 0		0 0	7 0 0	0 0
South Dakota, total South Dakota Sch of Mines & Tech South Dakota State University University of South Dakota	49 150 139 144	15	4	0	1 0	0		3	2	0	0 2	0

See explanatory information if any land SOURCE at end of table



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									1 age	12 0. 10
	Earth,	Mathe-	Com- puter		iological 8 Itural scie		Psy-	Social	Non-	Grand total.
State and institution	atmos, ocean	matics	sci- ences	Total	Bio- logical	Agri- cul- tural	chology	sci- ences	S&E. total	all fields
Ohio, total Air Force Institute Technology Bowling Green State University Case Western Reserve University Cleveland State University	0	45 0 4 4	19 0 0 4 0	207 0 7 32 2	178 0 7 32 2	29 0 0 0	152 0 17 10 0	115 0 8 4 0	702 0 28 43 14	1.783 24 68 187 29
Hebrew Union Col-Jewish Inst Relig Kent State University Medical College of Ohio Miami University Oxford Campus Ohio State University	0	0 3 0 0 20	0 2 0 0 13	0 10 12 8 83	0 10 12 8 54	0 0 0 0 29	0 23 0 11 37	0 4 0 4 80	3 73 4 14 296	3 130 16 39 7^2
Ohio University University of Akron University of Cincinnati University of Dayton University of Toledo Wright State University	0 7 0 0		0 0 0 0 0	12 0 31 1 3 6	12 0 31 1 3 6	0 0 0 0 0	22 15 0 7	069000	63 22 101 6 35	102 110 272 19 74 8
Oklahoma, total Oklahoma State University University of Oklahoma Norman University of Tulsa	8	2 2		47 30 17 0	32 15 17 0	15 15 0 0	12 6	38 20 18 0	181 90 79 12	405 205 169 31
Oregon, total Oregon Grad Inst Science & Tech Oregon Health Sciences U Oregon State University Portland State Uriversity University of Oregon	13	0 0 6	1 0 8 1	74 0	64 3 11 33 0 17	41 0 0 41 0	0 2 7 0	10 16	174 0 10 40 11 113	490 13 23 199 31 224
Pennsylvania, total Bryn Mawr College Carnegie Mellon University Drexel University Duquesne University	. 0	11	15	7 0	242 1 7 0 0		0 7 5	10 8 0		2.107 28 167 59 14
Indiana University Pennsylvania Lehigh University Medical Col PA, the Medical Col PA & Hahnemann U Pennsylvania State U			0 0	12 8	0 2 12 8 58	0	5 0 1 1	0 0 0	0	45 108 12 11 530
Philadelphia Col Pharmacy & Sci Temple University Thomas Jefferson University University of Pennsylvan a University of Pittsburgh			3 0 0 17	25 26 65	25 26 65	0	37 0 0 18	28 0 104	176 0 165	289 26 459 329
Villanova University Westminster Theological Seminary Widener U Pennsylvania Campus	.] () 0	0	(0	8	. 8
Rhode Island, total]	7 11	3 3	2 30 18 12 12	18	3 (4 25 7 4 18	' 21	42	162
South Carolina, total Clemson University Medical U South Carolina South Carolina State University U of South Carolina at Columbia		3 1		7 67 5 28 0 18 0 0	18 18 18	3 10	0 0) 2	2 22	115 23 17
South Dakota, totalSouth Dakota Sch of Mines & Tech South Dakota State University University of South Dakota		0		120		3	0 (6 () i	30 0 1 0 30	15

 $S_{\Theta\theta}$ explanatory information, if any, and SOURCE at end of table.



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					Engine	ering				Physical		13 01 16
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trica!	Mechan- ical	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physical sciences
Tennessee total East Tennessee State University Geo Peabody Col Teachers Meharry Medical College Mid-America Baptist Theol Seminary	23 144 154 146 154	336 10 0 8 0	63 0 0 0	7 0 0 0	17 0 0 0	19 0 0 0	9 0 0 0	16 0 0 0	35 0 0 0	14 0 0 0	21 0 0 0	0 0 0 0
Middle Tennessee State U Tennessee State University Tennessee Technological U University of Memphis University Tennessee Knoxville	149 154 139 110 58	5 0 15 46 145	0 0 15 3 24	0 0 2 0 3	0 0 1 0 6	0 0 5 2 4	0 6 0	00 - 1 8	0 0 0 2 21	0 0 0 9	0 0 0 2 12	0 0 0 0
University Tennessee Memphis	147 76	7 100	0 26	0 2	0 10	0	0	0 6	0 12	0 5	0 7	0 0
Texas, total Baylor College of Medicine Baylor University Dallas Theological Seminary East Texas State University	3 110 146 154 147	1,616 46 8 0 7	437 0 0 0 0	0	66 0 0 0	112 0 0 0 0	0 0	107 0 0 0	241 0 3 0 0	0 2 0	137 0 1 0 0	1 0 0 0
Lamar University-Beaumont	151 79 149 112 154	3 93 5 44 0	3 20 0 15	0	1 1 0 0	0 6 0 11	0	1 2 0 3 0	0 31 0 0	18 0 0	0 12 0 0 0	0 1 0 0
St Mary's University Texas A&M University Kingsville Texas A&M University Texas Christian University Texas Southern University	149 154 7 143 154	5 0 434 11 0	0 0 135 0 0	0 19 0	0 0 16 0	0 0 34 0	19 0	0 47 0	0 0 61 3 0	9		0 0 0 0
Texas Tech University Texas Woman's University University of Dallas University of Houston U North TX	71 119 153 69 93	112 36 1 115 64	21 0 0 41 1	0	4 0 0 6 0	4 0 0 7	0 0	0 0 11		0 0 9	0 0 12	0
U North TX Hith Scr Ctr Ft Worth University of St Thomas U Texas at Arlington U Texas at Austin U Texas at Dallas	149 154 108 9 113	48 421	28 168	0 0 39	0 0 5 33 0	38	0 8 3 32	0 6 26	68	0 2 39	0 4 29	0
U Texas at El Paso U Texas Hith Sci Ctr Houston U Texas Hith Sci Ctr San Antonio U Texas Med Branch Galveston U Texas SW Med Ctr Dallas	113	42 19 14		0 0				0	0 0	0 0	0	0 0
Utah, total Brigham Young University University of Utah Utah State University	29 108 62 104	48 138	37	0 6	3 0		15 2 3 13 0	15	11 34	3	8 28	0
Vermont, total Middlebury College University of Vermont	45 154 107	. 0) 0		1 (i ō	1 0) c	ا ا	0
Virginia, total College of William and Mary George Mason University Old Dominion University Regent University	14 125 99 120	29 58 35	15	0 5 5 0 5	0		34 04 04 05 05 06 07	0 1) E	3 7 3 0	0 0	0
Union Theological Sem Virginia University of Virginia Virginia Commonwealth University Virginia ∽olytechnic Inst & St U	48	162	44	5	4	1;	0 (19	2/	12	12	0 0

See explanatory information, if any, and SOURCE at end of table.



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									. Page	14 of 16
	Earth.	Mathe-	Com- puter		iological & Iltural scie		Psy-	Social	Non-	Grand total.
State and institution	atmos, ocean	matics	sci- ences	Total	Bio- logical	Agri- cul- tural	chology	sci- ences	S&E. total	all fields
Tennessee, total East Tennessee State University Geo Peabody Col Teachers Meharry Medical College Mid-America Baptist Theol Scritinary	7 0 0 0	13 0 0 0	50000	97 10 0 8 0	89 10 0 8 0	00008	67 0 0 0	44 0 0 0	314 24 47 0 10	650 34 47 8 10
Middle Tennessee State U Tennessee State University Tennessee Technological U University of Memphis University Tennessee Knoxville	0 0 0 0 7	0 0 0 4 5	0 0 0 2 1	1 0 0 3 41	1 0 0 3 33	0 0 0 0 8	0 0 0 31 21	4 0 0 1 25	13 26 0 67 81	18 26 15 113 226
University Tennessee Memphis Vanderbilt University	0	0 4	0 2	7 27	7 27	0 0	0 15	0 14	5 41	12 141
Texas: total Baylor College of Medicine Baylor University Dallas Theological Seminary East Texas State University	71 0 1 0 0	47 0 2 0 0	54 0 0 0	403 46 1 0 0	325 46 1 0	78 0 0 0	186 0 1 0 7	177 0 0 0 0	1,029 3 29 9 43	2.645 49 37 9 50
Lamar University-Beaumont Rice University Sam Houston State University Southern Methodist University Southwestern Baptist Theol Sem		0 4 0 6	0 4 0 3 0	0 10 0 2 0	0 10 0 2 0	0 0 0 0	0 3 0 2 0	0 11 5 12 0	0 15 0 3 49	3 108 5 47 49
St Mary's University Texas A&M University Kingsville Texas A&M University Texas Christian University Texas Southern University	0 0 21 0 0	0 0 13 0	0 0 15 0	0 0 125 0 0	0 63 0 0	0 0 62 0 0		0 0 43 0 0	0 4 154 12 14	5 4 588 23 14
Texas Tech University Texas Woman's University University of Dallas University of Houston U North TX	0 0 3			30 3 0 11 15	14 3 0 11 15	16 0 0 0	27 1 24	11 6 0 9 8	56 67 0 89 111	168 103 1 204 175
U North TX Hith Sci Ctr Ft Worth University of St Thomas U Texas at Arlington U Texas at Austin U Texas at Dallas	0	0 5 8	0 3 16	0 1 52	5 0 1 52 4) ó	0 2 35	0 3 57	0 2 28 291 14	
U Texas at El Paso U Texas Hith Sci Ctr Houston U Texas Hith Sci Ctr San Antonio U Texas Med Branch Galveston U Texas SW Med Ctr Dallas	0 0	0 0	0 0	39 19 14	39 19 14	0	000	0 0	0 33 1 1	4 75 20 15 38
Utah, total Brigham Young University University of Utah Utah State University	0) 7	2 3	6 28	5 28	1 0	17	5 13	24 64	72 202
Vermont, total Middlebury College University of Vermont	0	0	ı ă	0	0	0	0	0	1	1
Virginia, total College of William and Mary George Mason University Old Dominion University Regent University	10		10 3	3	3 3		15	2 22 7	28 20 6	57 78 41
Union Theological Sem Virginia University of Virginia Virginia Commonwealth University Virginia Polytechnic Inst & St U		2 9	9 5	28	28 44		18	32	129 32	291 113

See explanatory information, if any, and SOURCE at end of table



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					Engine	eering			1	Ph/sical	sciences	
State and institution	S&E rank	Total S&E	Total	Chemi- cal	Civil	Elec- trical	Mechan- ıcal	Other engi- neering	Total	Physics & astron- omy	Chem- istry	Other physical sciences
Washington, tota' Gonzaga University Seattle University University of Washington Washington State University	20 154 154 20 55	443 0 0 293 150	86 0 0 51 35	11 0 0 5 6	8 0 0 3 5	30 0 0 18 12	11	18 0 0 14 4	54 0 0 45 9	20 0 0 14 6	34 0 0 31 3	0 0 0 0
West Virginia. total Marshall University West Virginia University	41 153 92	67 1 66	25 0 25	4 0 4	1 0 1	5 0 5	6 0 6	9 0 9	5 0 5	2 0 2	3 0 3	0 0 0
Wisconsın. total Marquette University Medical College of Wisconsin U of Wisconsin-Madison U of Wisconsin-Milwaukee		661 15 17 569 60	148 7 0 133 8	17 0 0 17 0	16 2 0 13	43 2 0 36 5	0 0	3	109 2 0 89 18	0 0 38		1 0 0 1 0
Wyoming. total	44 106	51 51	2 2	2 2	0	0		0	9			0
Puerto Rico. total Caribbean Ctr for Adv Studies Ctr Adv Studies PR & Caribbean Inter American U PR Metropolitan University of PR Rio Piedras	152 144 154	34 2 10 0 22	0 0	0 0 0 0	0 0 0 0	0) 0		7 0 0 0 7	0	6 0 0 0 0 6	0 0 0 0

See explanatory information, if any, and SOURCE at end of table.



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	Earth,	Mathe-	Com-		iological & iltural scie		Psy-	Social	Non-	Grand total.
State and institution	atmos. ocean	matics	sci- ences	Total	Bio- logical	Agrı- cul- turai	chology	sci- ences	S&E. total	all fields
Washington, total Gonzaga University Seattle University University of Washington Washington State University	U	23 0 0 18 5	12 0 0 11	140 0 0 92 48	96 0 0 65 31	44 0 0 27 17	31 0 0 15 16	63 0 0 35 28	256 19 23 162 52	699 19 23 455 202
West Virginia, total Marshall University West Virginia University	0	1 0 1	0 0 0	18 1 17	17 1 16	1 0 1	12 0 12	5 0 5	60 0 60	127 1 126
Wisconsin, total	0	42 2 0 36 4	21 0 0 21 0	183 2 17 155 9	17	48	49 2 0 38 9	92 0 0 80 12	281 36 0 213 32	942 51 17 782 92
Wyoming, total	9		0	18 18				4	22 22	73 73
Puerto Rico, total Caribbean Ctr for Adv Studies Ctr Adv Studies PR & Caribbean Inter American U PR Metropolitan University of PR Rio Piedras	0	0 0	0	. 0	0 0	0 0	10	0 0	29 0 0 13 16	10 13

KEY: - = Not applicable

SOURCE: National Science Foundation SRS. Survey of Earned Doctorates



Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1994

Page 1 of 2 Definite plans Field of study Total Total In the United States with Location definite Abroad unknown Postdoo Total in Academic Other plans Industry U.S. study employment employmen' All recipients Science and engineering, total 26,211 15,620 13,245 5,978 2,946 2,631 1,690 2,316 59 5.826 2.303 Engineering, total 2.953 594 335 1,098 276 635 15 Aeronautical/astronautical 104 83 26 18 14 20 Chemical 725 423 318 100 20 177 21 99 6 324 906 220 748 49 105 Civil 684 42 47 102 2 Electrical 1,675 114 456 73 158 Industrial 228 117 79 31 26 38 0 Materials/metallurgical 227 354 104 104 539 288 12 92 19 58 1.015 435 49 156 45 42 80 2 356 274 93 730 84 55 80 20,385 12,667 10.942 5,384 1,363 Sciences, total ... 2,611 1.533 1,681 44 Physical sciences, total 3,975 2.085 2,415 105 18 159 464 99 312 Astronomy 92 10 13 Chemistry 2,254 1,461 1,301 807 100 39 13 Physics 1.549 834 682 481 50 104 47 147 Other physical sciences 29 15 10 Õ Earth, atmospheric, and ocean sciences 824 499 418 207 78 66 80 2 2 1.118 Mathematics 254 165 599 473 122 69 28 124 Computer sciences 904 458 36 552 61 196 92 Biological sciences 5,197 3,603 3,293 2,691 169 156 298 12 2 Agricultural sciences 1.078 636 428 182 87 206 3,389 2,127 2,044 600 518 319 607 82 Psychology Social sciences 3,900 2,236 1,073 358 487 6 Non-S&E. total 14.800 9 278 8 396 445 4,798 551 2,602 872 10 Grand total, all fields 41,011 24,898 21,641 6.423 7,744 3,182 4,292 3.188 69 U.S. citizens 10,179 9.729 Science and engineering, total 15,149 3.964 2,433 1,818 1,514 440 10 Engineering, total 1,421 1,355 263 231 621 64 2 240 Aeronautical/astronautical 110 0 209 130 <u>Chemical</u> 293 196 42 17 118 19 203 ò Civil 15 38 124 30 Electrical 633 ŏ 435 53 65 233 64 20 89 55 53 23 10 15 0 Industrial 218 143 132 18 11 44 60 Mechanical 356 203 196 40 36 83 37 Ō Other engineering 309 180 175 39 53 37 Ō 12,938 8,758 8,374 3.701 2 202 1,197 274 8 Sciences, total 376 Physical sciences, total 2.195 1.495 1.396 813 144 354 85 97 Ástronomy 102 80 0 45 47 Chemistry 1.289 932 885 476 96 281 32 2 42 **Physics** 789 475 428 279 39 68 Other physical sciences Ó 0 Earth, atmospheric, and ocean 506 58 20 33 329 309 137 68 178 46 20 0 sciences Mathematics 496 313 295 38 18 ŏ 59 Computer sciences
Biological sciences
Agricultural sciences 426 112 3,415 2.508 2,406 1.887 241 144 134 100 519 339 319 95 79 85 60 19 28 78 Psychology 3.060 1.991 1,963 559 117 497 595 02 Social sciences . 2.321 1,491 1,411 883 122 289 Non-S&E total 11,956 7,926 7.741 349 4,350 494 2,548 181 Grand total, all fields 27,105 17,470 4,313 4,062 18,105 6,783 2,312 621 14

See explanatory information, if any, and SOURCE at end of table



Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1994

Page 2 of 2

					Defini	te plans			age 2 01 2
Field of study	Total	Total			In the United	States			Lacation
		with definite plans	Total in U.S.	Postdoc study	Academic employment	Industry employment	Other	Abroad	Location unknown
	1			Non-U.	S, citizens with	permanent visas			
Science and engineering, total	3,022	1,461	1,322	726	184	336	76	127	12
Engineering, total Aeronautical/astronautical Chemical Civil	839 20 87 89	343 2 36 35	301 2 30 29	78 0 14 5	30 0 2 2	174 2 14 15	19 0 0 7	39 0 5 6	3 0 1 0
Electrical	266 30	129 11	120 8	13 2	12 2	90	5	9	0
Materials/meta/lurgical Mechanical Other engineering	79 179 89	34 59 37	30 52 30	15 17 12	1 5 6	14 25 10	0 5 2	3 7 6	1 0 1
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	2,183 590 9 324 255 2	1,118 261 5 156 98 2	1,021 244 5 148 89 2	648 178 4 108 65	154 9 0 2 7	162 51 0 36 15	57 ⁹ 6 1 2 2 1	88 13 0 5 8	9 4 0 3 1
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	106 151 117 668 97	63 57 64 434 45	57 52 61 412 35	7 366	6 20 14 23 4	13 18 39 9	5 1 1 14 0	5 5 3 18 10	1 0 0 4 0
PsychologySocial sciences	85 369	46 148	38 122	1		7 19	8 22	8 26	0
Non-S&E, total	719	347	286	36	191	28	31		ł
Grand total, all fields	3.741	1,808	1,608	762	375	364		187	1;
				Non-l	J.S. citizens with	n temporary visa	s 		
Science and engineering, total	7,510	3.972	2,191	1,287		477	100		1
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	96 336 385	178 178 159	92	7 7 22 44 7 22	7 3 1 1 2 17	5 45 26	17 2 2		
Industrial Materials/metallurgical Mechanical Other engineering	109 233 459	51 110 173	11 6: 3 10	8 5 4 6 4	7 8	18 48		33 1 43 3 66 3 69	3
Sciences, total	4,854 1,108 32 597 472	2.784 65 2 20 37 2 20	1.54 7 44 0 1 2 26 0 16	4 37 2 1: 7 22 5 13	1 6 2 6 2 7	3 174 59 0 2 38 4 21		8 20 0 9 5 9	1 1: 8 7
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	196 43 344 1,050	7 22 1 19 6 66	8 12 6 12 0 47	6 5 2 2 4 43	0 5 0 3 8 1	9 61		4 5 7 10 2 7 8 18 3 17	0 3 0
PsychologySocial sciences	. 15				8 1 8 12			4 7 38	6
Non-S&E, total	1.88		1	Ĭ	50 25	1		62	1
Grand total, all fields	. 9,39	3 4,97	4 2,55	1,34	58	3 506	12	2.37	<u> </u>

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates



Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1994

Page 1 of 2 In the United States Definite Location Field of study plans Abroad unknown Total in Postdoc Academic Industry Other U.S. study employment employment All recipients Science and engineering total 100.0 84.8 38.3 18.9 16.8 10.8 14.8 0.4 Engineering, total 100.0 78.0 20. 37.2 93 215 Aeronautical astronautical 25.0 23.6 13.0 100.0 17.3 19.2 1.0 100.0 75.2 67.9 41.8 1.4 100.0 15 1 25.3 50.3 31.5 Electrical 100.0 12.6 11.6 8.1 17.4 Ò. Industrial 100.0 94 22.2 26.5 9.4 Materials metallurgical 100.0 78.8 36.1 31.9 6.6 20.1 1.0 Mechanical 100.0 11.3 35.9 10.3 184 .2 .6 Other engineering 100.0 77.0 26.1 23.6 11.8 22.5 Sciences, total ... 100.0 86.4 42.5 20.6 121 11.2 13.3 .3 .7 .0 Physical sciences, total 100.0 86.3 56.4 6.6 19.2 12.9 4.1 Astronomy 9.5 100.0 87.6 67.6 12.4 Chemistry 100.0 89.0 55.2 57.7 6.8 24.3 10.1 Physics 100.0 81.8 6.0 6.7 12.5 13.3 17.6 .6 .0 Other physical sciences 100 0 66.7 26.7 20.0 33.3 Earth, atmospheric, and ocean 100 0 83.8 15.6 13.2 13.4 16.0 23433 100.0 79.0 20.4 42.4 20.7 16.7 11.5 47 Computer sciences 100.0 83.0 11.1 29.9 35.5 6.5 Biological sciences 74.7 28.6 100 C 91.4 Agricultural sciences 100.0 67.3 15.7 15.1 9.9 32.4 Psychology 100.0 96.1 15.0 28.5 .0 .3 3.9 7.1 100.0 78.0 48.0 6.9 16.0 21.8 100.0 90.5 4.8 51.7 5.9 9.4 28.0 .1 100.0 Grand total, all fields 86.9 25.8 31,1 12.8 17.2 .3 U.S. citizens Science and engineering, total 100.0 95.6 38.9 23.9 17.9 14.9 4.3 0.1 Engineering total 100.0 16.3 16.9 Aeronauticał astronauticał 100.0 97.0 28.8 16.7 27.3 24.2 56.5 31.5 93.8 20.1 9.1 29.2 8.1 5.3 1.0 23.1 100.0 95.4 11.5 46 0. 0. 100.0 53.6 14.7 4.6 industrial 100.0 96.4 41.8 27.3 0. 0. 0. 20.0 3.6 Materials metallurgical 100.0 92.3 308 42.0 12.6 18.2 100.0 Mechanical Other engineering 100.0 97.2 25.6 21.7 29.4 20.6 2.8 ŏ. Sciences total 100 0 42.3 25.1 137 Physical sciences, total 1000 54.4 23.7 6.5 100.0 100.0 68.8 51.1 93.8 10.0 3.7 11.2 .0 .2 .0 Chemistry 30.2 10.3 95.0 3.4 4.8 100 0 Physics 8.2 90.1 58 7 143 88 99 Other physical sciences 100.0 100 0 12.5 25.0 25.0 .0 Earth atmospheric and ocean sciences 100.0 20.7 17.6 0. 0. 14.0 6.1 Mathematics 100.0 18.8 56.9 6.4 94.2 95.9 11 6 75.2 Computer sciences 1000 38.4 32.9 11.3 3 Biological sciences 100 0 96 5.3 17.7 40 Agricultural sciences 100 0 94 1 28.0 23.3 25.1 56 Psychology 100.0 98.6 28 1 25.0 15.7 29.9 0. Social sciences 100.0 94 6 59 2 8.2 19.4 5.2 Non S&E_total 1000 97.7 4 4 54.9 6.2 32.1 2.3 .1 100 0 Grand total all fields 238 375 965 128 22 4 34 .1

See explanatory information, if any, and SOURCE at end of table

Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1994

Page 2 of 2

	_							Page 2 of 2
	Definite			In the United S	rates			Location
Field of study	plans	Total in U.S.	Postdoc study	Academic employment	Industry employment	Other	Abroad	u nknow n
	1		Nor	n-U.S. citizens v	vith permanent	visas		
Science and engineering, total	100.0	90.5	49.7	12.6	23.0	5.2	8.7	0.8
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	100.0 100.0 100.0 100.0 100.0	87.8 100.0 83.3 82.9 93.0	22.7 .0 38.9 14.3 10.1	8.7 .0 5.6 5.7 9.3	50.7 100.0 38.9 42.9 69.8	5.5 .0 .0 20.0 3.9	11.4 .0 13.9 17.1 7.0	.9 .0 2.8 .0
Industrial Materials/metallurgical Mechanical Other engineering	100.0 100.0 100.0 100.0	72.7 88.2 88.1 81.1	18.2 44.1 28.8 32.4	18.2 2.9 8.5 16.2	36.4 41.2 42.4 27.0	.0 .0 8.5 5.4	27.3 8.8 11.9 16.2	.0 2.9 .0 2.7
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	100.0 100.0 100.0 100.0 100.0 100.0	91.3 93.5 100.0 94.9 90.8 100.0	58.0 68.2 80.0 69.2 66.3 50.0	13.8 3.4 .0 1.3 7.1 .0	14.5 19.5 .0 23.1 15.3	5.1 2.3 20.0 1.3 2.0 50.0	7.9 5.0 0 3.2 8.2	.8 1.5 .0 1.9 1.0
Earth. atmospheric. and ocean sciences	100.0 100.0 100.0 100.0 100.0	90.5 91.2 95.3 94.9 77.8	52.4 22.8 10.9 84.3 55.6	9.5 35.1 21.9 5.3 8.9	29.6 31.6 60.9 2.1 13.3	7.9 1.8 1.6 3.2 .0	7.9 8.8 4.7 4.1 22.2	1.6 .0 .0 .9
Psychology Social sciences	100.0 100.0	82.6 82.4	28.3 8.8	21.7 45.9	15.2 12.8	17.4 14.9	17.4 17.6	
Non-S&E, total	100.0	82.4	10.4	55.0	8.1	8.9	17.3	.3
Grand total, all fields	100.0	88.9	42.1	20.7	20.1	5.9	10.3	.7
			No	n-U.S. citizens	with temporary	visas		
Science and engineering total	100 0	55.2	32.4	8.2	12.0	2.5	43.9	0.9
Engineering, total	100.0 100.0 100.0 100.0 100.0	54.5 47.2 51.7 42.1 62.3	21.3 19.4 24.7 13.8 14.0	6.2 8.3 .6 10.7 8.2	13.9 25.3 16.4	1.1 1.3	50.0 46.6 56.6	2.8 1.1 1.3
Industrial	100.0 100.0 100.0 100.0	35.3 59.1 61.3 49.6	9.8 40.9 27.2 25.2		16.4 27.7	1.7	39.1 38.2	1.8
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	100.0 100.0 100.0	67.6 60.0 71.8 63.5	56.5 60 0 59.7	.0 .5 1.5	9.0 .0 10.2 8.1	1.2 .0 1.3 1.2	30.6 40.0 26.1 35.0	1.l 2.:
Earth, atmospheric, and ocean sciences	100 0 100.0 100 0 100 0	55.3 62.2 71.8	10.2 66.4	24.6 19.9 1.8	5.7 31.1 3 2.4	3.1 1.0 1.2	43.9 37.2 2 27.3	
Psychology	100 0 100.0							
Non-S&E, total	100.0	36.7	6.0	25.5	2 8	2.3	62.0	.:
Grand total, all fields	100 0	51 4	27 1	11.7	10 2	2.5	47.	7

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates



Table 9. Postgraduation plans of scien~e and engineering (S&E) doctorate recipients, by sex and major field: 1994

[U.S. citizens and non-U.S. citizens with permanent visas]

Page		-4	•
rade	- 1	u	~

					Defin	ite plans			age 1 01 2
Field of study	Total	Total with			In the United	States			Location
		definite plans	Total in U.S.	Postdoc study	Academic employment	Industry employment	Other	Abroad	unknown
		•			All such reci	ipients			•
Science and engineering, total	18,171	11,640	11,051	4,690	2,617	2,154	1,590	567	22
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	3,050 130 380 292 899	1,764 68 245 165 564	1,656 66 226 153 535	341 19 56 20 66	261 11 19 32 77	795 20 132 56 323	259 16 19 45 69	103 2 16 12 29	5 0 3 0
Industrial Materials/metallurgical Mechanical Other engineering	119 297 535 398	66 177 262 217	61 162 248 205	6 59 57 58	25 11 41 45	19 74 108 63	11 18 42 39	5 14 14 11	0 1 0
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	15.121 2,785 111 1,613 1,044	9,876 1,756 85 1,088 573	9,395 1,640 80 1,033 517	4,349 991 59 584 344	2,356 153 8 98 46	1,359 405 3 317 83 2	1,331 91 10 34 44 3	464 110 5 50 55 0	17 6 0 5 1
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	612 647 543 4,083 616	392 370 356 2,942 384	366 347 336 2,818 354	170 72 41 2,253 120	74 198 126 264 83	59 56 135 153 91	63 21 34 148 60	25 23 19 118 29	1 0 1 6
Psychology Social sciences	3,145 2,690	2,037 1,639	2,001 1,533	572 130	507 951	319 141	603 311	36 104	0 2
Non-S&E, total	12,675	8,273	8,027	385	4,541	522	2,579	241	5
Grand total, all fields	30,846	19,913	19,078	5,075	7,158	2,676	4,169 	308	27
					Wome	en .		•	
Science and engineering, total	6,495	4.212	4,056	1,776	1,142	511	627	152	4
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	448 9 78 55 88	278 6 54 33 54	268 6 51 33 53	10 7	7	33 10	41 0 4 9 6	3	0 0
Industrial Materials/metallurgical Mechanical Other engineering	29 64 54 71	22 41 25 43	22 38 24 41	16	7	10 5	5 5 6 6	3	0
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	463 137	69	371 17 289 63	214 15 161 37	54 2 40	86 0 78 7	586 17 0 10 7	17 0 11	0 0
Earth, atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	1,740	96 59 1,245	90 57 1,191	968	68 26 120	8 17 50	14 3 5 53	51	0 0 3
Psychology Social sciences									
Non-S&E, total	7,007	4,617					1		1
Grand total, all fields	13,502	8,829	8,578	2,006	3,738	789	2,045	243	8

 $See \ explanatory \ information, if any, and SOURCE at end of table.$



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Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1994

[U.S. citizens and non-U.S. citizens with permanent visas]

Page 2 of 2

			_	_					aye 2 01 2
					Defin	ite plans			
Field of study	Total	Total with			In the United	States			Location
		definite plans	Total in U.S.	Postdoc study	Academic employment	Industry employment	Other	Abroad	unknown
			•		Men				
Science and engineering, total	11,676	7,428	6,995	2,914	1,475	1,843	963	415	18
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	2,602 121 302 237 811	1.486 62 191 132 510	1,388 60 175 120 482	266 17 46 13 56	204 9 15 25 65	700 18 99 46 298	218 16 15 36 63	93 13 12 28	5 0 3 0
Industrial Materials/metallurgical Mechanical Other engineering	90 233 481 327	44 136 237 174	39 124 224 164	3 43 50 38	16 4 35 35	14 64 103 58	6 13 36 33	5 11 13 9	0 1 0 1
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	9,074 2,161 90 1,150 907 14	5,942 1.368 68 788 504	5,607 1,269 63 744 454 8	2,648 777 44 423 307 3	1,271 99 6 58 34	943 319 3 239 76	745 74 10 24 37 3	322 93 5 39 49 0	13 6 0 5 1
Earth. atmospheric. and ocean sciences	468 498 449 2.343 456	289 274 297 1,697 295	273 257 279 1,627 270	119 61 32 1.285 88	51 130 100 144 65	54 48 118 103 74	49 18 29 95 43	16 17 17 67 24	0 0 1 3
Psychology Social sciences	1,171 1,528	802 920	784 848	219 67	182 500	135 92	248 189	18 70	0 2
Non-S&E, total	5,668	3,656	3,505	155	1,945	244	1,161	150	1
Grand total, all fields	17,344	11,084	10,500	3,069	3.420	1,887	2,124	565	19

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates



Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1994

[U.S. citizens and non-U.S. citizens with permanent visas]

Page 1	101	-

	Definite			In the United S	tates			Location
Field of study	plans	Total in U.S.	Postdoc study	Academic employment	Industry employment	Other	Abroad	unknown
		I		All such	recipients			
Science and engineering, total	100.0	94.9	40.3	22.5	18.5	13.7	4.9	0.2
Engineering, total Aeronautical/astronautical Chemical Civil Electrical	100.0 100.0 100.0 100.0 100.0	93.9 97.1 92.2 92.7 94.9	19.3 27.9 22.9 12.1 11.7	14.8 16.2 7.8 19.4 13.7	45.1 29.4 53.9 33.9 57.3	14.7 23.5 7.8 27.3 12.2	5.8 2.9 6.5 7.3 5.1	.3 .0 1.2 .0
Industrial Materials/metallurgical Mechanical Other engineering	100.0 100.0 100.0 100.0	92.4 91.5 94.7 94.5	9.1 33.3 21.8 26.7	37.9 6.2 15.6 20.7	28.8 41.8 41.2 29.0	16.7 10.2 16.0 18.0	7.6 7.9 5.3 5.1	.0 .6 .0 .5
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	100.0 100.0 100.0 100.0 100.0 100.0	95.1 93.4 94.1 94.9 90.2 100.0	44.0 56.4 69.4 53.7 60.0 40.0	23.9 8.7 9.4 9.0 8.0 10.0	13.8 23.1 3.5 29.1 14.5 20.0	13.5 5.2 11.8 3.1 7.7 30.0	4.7 6.3 5.9 4.6 9.6	.2 .3 .5 .2
Earth. atmospheric, and ocean sciences Mathematics Computer sciences Biological sciences Agricultural sciences	100.0 100.0 100.0 100.0 100.0	93.4 93.8 94.4 95.8 92.2	43.4 19.5 11.5 76.6 31.3	18.9 53.5 35.4 9.0 21.6	15.1 15.1 37.9 5.2 23.7	16.1 5.7 9.6 5.0 15.6	6.4 6.2 5.3 4.0 7.6	.3 .0 .3 .2
PsychologySocial sciences	100.0 100.0	98.2 93.5	28.1 7.9	24.9 58.0	15.7 8.6	29.6 19.0	1.8 6.3	.0 .1
Non-S&E. total	100.0	97.0	4.7	54.9	6.3	31.2	2.9	.1
Grand total, all fields	100.0	95.8	25.5	35.9	13.4	20.9	4.1	.1
				W	omen			
Science and engineering, total	100.0	96.3	42.2	27.1	12.1	14.9	3.6	0.1
Engineering, total	100.0 100.0 100.0 100.0 100.0	96.4 100.0 94.4 100.0 98.1	27.0 33.3 18.5 21.2 18.5	21.2	61.1 30.3	14.7 .0 7.4 27.3 11.1	3.6 .0 5.6 .0 1.9	.0 .0 .0
Industrial Materials metallurgical Mechanical Other engineering	100.0 100.0 100.0 100.0	100.0 92.7 96.0 95.3	13.6 39.0 28.0 46.5	24.0	24.4 20.0	22.7 12.2 24.0 14.0	.0 7.3 4.0 4.7	.0
Sciences, total Physical sciences, total Astronomy Chemistry Physics Other physical sciences	100.0 100.0 100.0 100.0 100.0	96 3 95.6 100.0 96 3 91 3 100 0	88 2 53.7 53 6	13.9 11.8 13.3 17.4	22.2 .0 26.0 10.1	14.9 4.4 .0 3.3 10.1	3.6 4.4 .0 3.7 8.7	.0 .0 .0
Earth, almospheric, and ocean sciences Mathematics	100.0 100.0 100.0 100.0 100.0	90 3 93.8 96 6 95.7 94 4	11.5 15.3 77.8	70.8 44.1 9.6	8.3 28.8 4.0	4.3	8.7 6.3 3.4 4.1 5.6	.0 .0 .2
Psychology	100.0 100.0	98.5 95.3				28.7 17.0	1.5 4.7	
Non-S&E, total	1000	97 9	5.0	56.2	60	30.7	20	.1
Grand total, all fields	100 0	97 2	22 7	42 3	8 9	23.2	2.8	.1

See explanatory information, if any, and SOURCE at end of table



Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1994

[U.S. citizens and non-U.S. citizens with permanent visas]

Page 2 of 2 In the United States Definite Location Field of study plans Abroad unknown Industry Academic Other Total in Postdoc employment US. employment study Men 13.0 5.6 0.2 Science and engineering, total 100.0 94.2 39 2 19.9 22.1 17.9 27.4 47.1 Engineering, total 100.0 93.4 96.8 13.7 14.5 7.9 25.8 7.9 100.0 29.0 Õ. Aeronautical/astronautical Chemical 6.8 100.0 51.8 1.6 34.8 58.4 27.3 12.4 CivilElectrical 100.0 100.0 90.9 94.5 9.8 11.0 18.9 12.7 9.1 5.5 0. 0. 13.6 9.6 15.2 11.4 .0 .7 31.8 100.0 88.6 6.8 36.4 Industrial 91.2 94.5 94.3 100.0 100.0 31.6 47.1 43.5 8.1 5.5 Materials/metallurgical 2.9 .0 .6 14.8 Mechanical
Other engineering 21.1 21.8 20.1 33.3 19.0 100.0 12.5 2.4.0.6.2 100.0 94.4 44.6 21.4 15.9 23.3 Sciences, total 5.4 56.8 64.7 6.8 7.2 100.0 100.0 92.8 Physical sciences, total 92.6 8.8 Astronomy 4.9 9.7 .0 30.3 3.0 100.0 53.7 Chemistry 7.3 37.5 100.0 90.1 60.9 15.1 Physics 12.5 0. 12.5 Other physical sciences 100.0 100.0 37.5 Earth, atmospheric, and ocean 94.5 93.8 93.9 .0 41.2 22.3 18.7 17.5 17.0 100.0 17.6 sciences 6.2 5.7 3.9 6.6 .0 .3 .2 .3 100.0 47.4 33.7 Mathematics 10.8 39.7 Computer sciences 75.7 29.8 100.0 95.9 5.6 22.0 25.1 14.6 8.1 100.0 97.8 27.3 7.3 16.8 30.9 2.2 7.6 0. 100.0 100.0 92.2 10.0 Social sciences 0. 100.0 95.9 4.2 53.2 6.7 31.8 4.1 Non-S&E, total2 100.0 94:7 27.7 30.9 17.0 19.2 5.1 Grand total, all fields

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates



SURVEY OF EARNED DOCTORATES 1993-94

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